

# **Exhibit D**

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**UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF CALIFORNIA  
SAN FRANCISCO DIVISION**

# **IN RE GOOGLE PLAY CONSUMER ANTITRUST LITIGATION**

## RELATED ACTIONS:

*Epic Games Inc. v. Google LLC et al.,*  
Case No. 3:20-cv-05671-JD

*In re Google Play Developer Antitrust Litigation*, Case No. 3:20-cv-05792-JD

*State of Utah, et. al., v. Google LLC, et. al.,*  
Case No. 3:21-cv-05227-JD

No. 3:20-CV-05761-JD

# **CONSOLIDATED FIRST AMENDED CLASS ACTION COMPLAINT**

## JURY TRIAL DEMANDED

Judge: Hon. James Donato

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## TABLE OF CONTENTS

1	INTRODUCTION .....	1
2	PARTIES.....	6
3	A.    Plaintiffs .....	6
4	B.    Defendants .....	9
5	JURISDICTION & VENUE .....	10
6	FACTUAL ALLEGATIONS .....	10
7	I.      THE RELEVANT MARKETS.....	10
8	A.    The Licensable Mobile Operating System Market .....	11
9	B.    The Android Application Distribution Market.....	12
10	C.    The In-App Aftermarket.....	13
11	II.    GOOGLE HAS MONOPOLY POWER IN THE MARKETS FOR LICENSABLE MOBILE OPERATING SYSTEMS AND IN THE ANDROID APPLICATION DISTRIBUTION MARKET.....	15
12	A.    Google’s Monopoly Power Over the Market for Licensable Mobile Operating Systems .....	15
13	B.    Google’s Monopoly Power in the Android Application Distribution Market .....	17
14	III.   GOOGLE UNLAWFULLY MAINTAINS A MONOPOLY IN THE ANDROID APPLICATION DISTRIBUTION MARKET.....	22
15	A.    Google’s Anticompetitive Agreements Imposed on OEMs and Mobile Network Operators Foreclose Competitors in the Android Application Distribution Market.....	23
16	i.    Anticompetitive MADA Restrictions Requiring OEMs to Preload and Preference Google Play and Preventing OEMs from Pre- Loading Any Software Google Deems to “Interfere” with Android.....	24
17	ii.    Revenue Sharing Agreements with Mobile Network Carriers and OEMs.....	29
18	B.    Google’s Anticompetitive Agreements Imposed on Developers Foreclosing Competition in the Android Application Distribution Market.....	31
19	C.    Google’s Imposition of Unnecessary Technical Barriers Further Foreclosing Competition in the Android Application Distribution Market.....	34
20	D.    Anticompetitive Effects in the Android Application Distribution Market .....	37
21	IV.    GOOGLE UNLAWFULLY MAINTAINS A MONOPOLY IN THE IN-APP AFTERMARKET.....	39

\*\*\*REDACTED VERSION OF DOCUMENT SOUGHT TO BE SEALED\*\*\*

1	A.	Google's Anticompetitive Conduct in the In-App Aftermarket.....	40
2	B.	Google's Monopoly Power in the In-App Aftermarket .....	44
3	C.	Anticompetitive Effects in the In-App Aftermarket .....	44
4	V.	ANTITRUST INJURY .....	45
5	VI.	CLASS ALLEGATIONS .....	46
6	CLAIMS .....	49	
7	A.	Claims for a Nationwide Class .....	49
8	B.	California Claims for a Nationwide Class and, in the Alternative, a Repealer State Class.....	59
9	PRAYER FOR RELIEF.....	72	
10	JURY TRIAL DEMAND.....	73	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
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1 Plaintiffs Mary Carr, Daniel Egerter, Zach Palmer, Serina Moglia, and Matt Atkinson on  
2 behalf of themselves and all others similarly situated, bring this class action against Defendants  
3 Google, LLC, Google Ireland Ltd., Google Commerce Ltd., Google Asia Pacific Pte. Ltd., and  
4 Google Payment Corp. (collectively, “Google”), and allege as follows:

5 **INTRODUCTION**

6 1. Consumers and businesses worldwide rely on smart mobile devices such as  
7 smartphones and tablets for work, news, entertainment, and communication. To function, these  
8 mobile devices require an operating system (“mobile OS”). Google controls the most pervasive  
9 mobile OS available to original equipment manufacturers (“OEMs”) to license, Google’s Android  
10 OS, and it has monopoly power over the market for licensable operating systems for mobile devices.

11 2. The commercial viability of a mobile OS depends in large part on the availability,  
12 number, and variety of compatible software products known as mobile applications or “apps” for  
13 consumers to download and use. Apps allow users to personalize their device according to their  
14 specific needs and interests. A mobile device that provides seamless access to and use of a wide  
15 variety of apps is valuable to consumers across the globe.

16 3. Google, unsatisfied with controlling the market for licensable mobile OSs, has  
17 erected contractual and technological barriers to monopolize the market for app distribution for  
18 licensable OSs and the aftermarket for the distribution of and payment for in-app products.

19 4. As a result, the Google Play Store (previously known as the Android Marketplace),  
20 which is Google’s online platform where app developers make their apps available for download  
21 and sale to Android users, accounts for nearly all app downloads from app stores on Android mobile  
22 devices, and all, or nearly all, distribution of additional products (in-app products) sold to enhance  
23 the initial application. In addition, Google’s payment system, Google Play Billing, must be used to  
24 transact all subsequent in-app purchases, allowing Google to impose its anticompetitive contractual  
25 restriction that developers pay Google—and Google alone—a toll for every purchase made through  
26 the app, forever.

27 5. Google has unlawfully maintained a monopoly over the market for distributing  
28 mobile apps to users of Android mobile devices (hereafter, the “Android Application Distribution

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1 Market”), as well as a monopoly in the aftermarket for distribution of and associated payment  
2 systems for digital accessories or enhancements to those applications (hereafter, the “In-App  
3 Aftermarket”).

4       6. Google’s anticompetitive scheme spans years and has been pursued through  
5 multiple means, all designed to exclude competition in the Android Application Distribution Market  
6 and the In-App Aftermarket. Google’s conduct includes anticompetitive contractual restrictions  
7 imposed on OEMs and developers; bribes to competitors and potential competitors to forego direct  
8 competition with the Google Play Store; paying off distribution channels to exclusively distribute  
9 Google Play; requiring developers who need critical advertising channels to distribute their  
10 applications through the Google Play Store; displaying deceptive and ominous warnings about  
11 alternative methods of distribution; and blocking rivals and developers who choose not to distribute  
12 through the Google Play Store from obtaining critical functionality to operate.

13       7. Google’s exclusionary conduct begins with a series of OEM restrictions. Any OEM  
14 that desires to pre-load any one of Google’s critical applications—such as Google Maps, Gmail,  
15 Google Search, YouTube, or a myriad of other applications that come in what Google calls the  
16 “Google Mobile Services” (“GMS”) suite of applications—must load the *entire* bundle, including  
17 the Google Play Store. Google requires OEMs not only to pre-install the Google Play Store on their  
18 mobile devices as a condition for licensing Google’s Android OS with its accompanying GMS  
19 suite, but also to locate the Google Play Store on the home page of each mobile device. These  
20 restrictions in Google’s OEM agreements interfere with an OEM’s ability to make other third-party  
21 app stores or apps easily accessible on their devices and practically block competitive stores from  
22 obtaining preferential placement, effectively foreclosing competing app stores—and even single  
23 apps—from the most effective and efficient distribution channel.

24       8. Not content with controlling OEMs to effect its anticompetitive scheme of  
25 monopolizing the Android Application Distribution Market, Google also imposes anticompetitive  
26 restrictions on app developers. Specifically, Google contractually prohibits app developers from  
27 offering an app through the Google Play Store that could be used to download other apps, or even  
28 directing users to other sources for downloading their apps. In addition, Google forever prohibits

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1 developers from using information about those customers they obtained through the Google Play  
2 Store making it impossible for developers to directly reach customers to offer alternatives to Google  
3 Play Store.

4       9.     Additionally, developers cannot use the Google-controlled advertising channels to  
5 advertise mobile apps, such as ad placements on Google Search or YouTube, unless they distribute  
6 their apps through the Google Play Store. Because of Google's market power in internet search, the  
7 bundling of the GMS suite of applications and the requirement for prominent placement on Android  
8 mobile devices, app developers must acquiesce to Google's anticompetitive restrictions for the  
9 Google Play Store.

10     10.    Google has not limited its anticompetitive scheme to OEM and developer  
11 restrictions, however. It also invokes contrived security concerns to justify stifling—or outright  
12 blocking—consumers' ability to download alternative app stores and apps directly from developers'  
13 websites. Downloading apps on an Android mobile device outside of the Google Play Store requires  
14 multiple steps including, among other things, changing the device's default settings after  
15 acknowledging multiple warnings advising users that doing so could harm their device. Even if a  
16 tech-savvy user runs this gauntlet and manages to install a competing app store, Google protects  
17 the Google Play Store's competitive advantage by blocking the alternative store from offering basic  
18 functions, such as automatic “background” updates of the kind seamlessly available for apps  
19 downloaded from Google Play Store.

20     11.    Not only does Google erect needless technological hoops to direct downloading, but  
21 it has also restricted any modification of the operating system code that would facilitate such  
22 downloading. These “anti-forking” restrictions, along with Google's needless barriers and  
23 warnings, practically foreclose an app developer's ability to distribute its applications through any  
24 other source except the Google Play Store.

25     12.    Through its behavior, Google intends to—and does—eliminate consumer choice,  
26 foreclosing competition in the Android Application Distribution Market. Not even the likes of  
27 Amazon—specifically targeted by Google through its anticompetitive conduct—has succeeded in  
28 breaking through Google's web of barriers that prevent competition on the merits.

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1       13.     Google leverages its ill-found power in the Android Application Distribution Market  
2 to impose anticompetitive restrictions in the In-App Aftermarket. Once an application has been  
3 downloaded to the user's device, the app developer may offer content, such as accessories for digital  
4 game play, upgrades to the app, advertisement-free app usage, subscriptions, or other digital  
5 products for sale within the app itself. These in-app purchases use payment systems that offer users  
6 of Android mobile devices a variety of payment options. An app developer can create its own  
7 payment processing system, or the developer could theoretically utilize a payment processing tool  
8 offered by third parties, such as Intuit or Stripe.

9       14.     But Google forecloses this market through additional exclusionary practices. It  
10 conditions the right to distribute an app through the Google Play Store on a developer's agreement  
11 to exclusively use the Google Play Store and Google Play Billing, Google's payment system, for  
12 all subsequent sales to its customers, enforced through the requirement that the developer use  
13 Google Play Billing for all aftermarket in-app payments. This restriction prevents developers from  
14 using their own or any non-Google payments system to transact in-app purchases. But for these  
15 restrictions, developers could use other, much less costly tools to process user payments through a  
16 variety of payment options, ranging from credit cards and debit cards to online wallets or digital  
17 payment mechanisms like PayPal, Intuit, or Stripe. Providers of these services compete based on  
18 price, range of services, and the extent to which user information is protected, aggregated, or sold  
19 in the In-App Aftermarket.

20       15.     By conditioning an app's access to the Google Play Store on the use of Google Play  
21 Billing for all aftermarket transactions, Google is not only able to ensure that it extracts its supra-  
22 competitive toll forever, but in so doing, it forecloses competition from alternative payment systems  
23 that could otherwise integrate with alternative app distribution channels, whether through a  
24 developers' direct relationships with their customers, or competitive third-party stores.

25       16.     Because of Google's restrictions, app developers cannot offer users other payment  
26 processing options alongside, or instead of, Google Play Billing. This forces app developers who  
27 distribute *once* through the Google Play Store to use it, and Google Play Billing, *in perpetuity*. In  
28 short, Google's use of its monopoly over the Android App Distribution Market to force developers

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1 to use Google Play Billing allows it to enforce one of its most pernicious restrictions: requiring  
 2 developers (and, therefore, consumers) to pay the Google toll forever. This contractual restriction,  
 3 an unreasonable restraint of trade standing alone, also forecloses competition in the In-App  
 4 Aftermarket, preventing developers from transacting with their customers directly, or from  
 5 employing alternative platforms to handle in-app purchases that occur after the download of the  
 6 initial applications—sometimes months, or even years after.

7       17. Google’s decision to tie its market power in the Android Application Distribution  
 8 Market to the In-App Aftermarket by requiring developers to use Google Play Store and Google  
 9 Play Billing allows Google to charge an exorbitant, supra-competitive rate, as high as 30% of *every*  
 10 *purchase*,<sup>1</sup> which is up to ten times higher than the toll charged by payment processing providers,  
 11 and multiples higher than what developers would pay in a competitive world where there would be  
 12 a choice of avenues through which they could interact and arrange payment with their customers.  
 13 Internally, Google freely admits that its “rev share @ 30%” has “[n]o rationale,” and is an “arbitrary  
 14 fee.”

15       18. Moreover, this tax never ends—it applies to every subsequent in-app purchase made  
 16 through the initial app download, even where Google Play has little or nothing to do with the in-  
 17 app distribution. As a result, consumers pay more for applications and in-app purchases than they  
 18 would in a competitive market. For every in-app purchase, just as for an initial app purchase,  
 19 consumers pay Google, not the app developer. Google then taxes the transaction at the exorbitant  
 20 rate of up to 30%, remitting the remainder to the developer who is responsible for setting the  
 21 purchase price to the consumer (subject to Google’s requirement that non-zero-priced products be  
 22  
 23

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24       1 After years of charging 30% for all subscription purchases, Google modified its subscription fee in January  
 25 of 2018. Though the decreased fee—to 15% for subscribers retained after 12 paid months—is still well  
 26 above the levels that would be set by competition, it only shows Google’s ability to profitably cut its fee *in*  
*half*. Indeed, faced with regulatory and legal pressure, Google recently announced another modification to  
 27 what it has internally called its “arbitrary” fee. As of July 1, 2021, Google allowed developers to register  
 28 for a 15% service fee, but only on the first \$1 million on annual revenue they generate through the Google  
 Play Store. This modification, though, has very little impact on the enormous supra-competitive profits  
 Google reaps, as it applies to a very small fraction of the dollars consumers spend year after year on  
 application purchases. It, too, only underscores the magnitude of Google’s inflated 30% fee.

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1 sold for no less than \$0.99, preventing developers from selling lower-priced applications to  
2 consumers).

3       19. Google's never-ending toll amounts to billions of dollars a year that should have  
4 stayed in consumers' pockets.

5       20. Google's anticompetitive restrictions on developers, however, have even more far-  
6 reaching effects. Maintaining a chokehold on all transactions related to in-app purchases allows  
7 Google to further embed its tentacles throughout the entire Android ecosystem. By requiring the  
8 use of Google Play Billing and interposing itself in every digital content purchase conducted within  
9 an Android mobile device-distributed app, Google collects information regarding user purchases  
10 and preferences, including names, email addresses, billing addresses, and purchase history, than it  
11 would not otherwise receive. And significantly, Google excludes other payment processing  
12 providers from gathering Android user information which hinders the ability of potential payment  
13 processing competitors from providing necessary services to developers.

14       21. But for Google's monopolistic conduct, competitors could offer consumers and  
15 developers choices to handle in-app purchases including payment processing. Entities wishing to  
16 distribute apps through a competing app store could offer developers greater innovation and  
17 enhanced choices, including the option to transact their aftermarket purchases directly with their  
18 customers or through some other payment system of their own choosing. With other viable options,  
19 app developers would not have had to pay Google's supra-competitive tax of 30% on all purchases  
20 for every distinct product sold within the app itself, which in turn has inflated prices paid by  
21 Plaintiffs and the Class.

22       22. Absent Google's web of anticompetitive conduct, described below, including  
23 restrictions on OEMs and application developers, prices would be set by market forces to the benefit  
24 of consumers and developers; more apps would be sold, and quality and innovation would increase.

## **PARTIES**

### **A. Plaintiffs**

23       23. Plaintiff Mary Carr is a natural person who resides in the State of Illinois. Ms. Carr  
24 purchased one or more apps through the Google Play Store; and, also purchased in-app digital

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1 content through one or more apps offered in the Google Play Store from August 16, 2016, to the  
2 present, and paid Google directly for these purchases. Ms. Carr is (1) a proposed representative of  
3 the national class asserting claims under the federal antitrust laws; (2) a proposed representative of  
4 a national class asserting claims under California's Cartwright Act (Cal. Bus. & Prof. Code §§16700  
5 et seq.) or, in the alternative, a proposed representative for Cartwright Act claims for states whose  
6 law provides for antitrust recovery for indirect purchasers ("Repealer States"); and (3) a proposed  
7 representative of a national class asserting claims under California's Unfair Competition Law (Cal.  
8 Bus. & Prof. Code §§ 17200, et seq.) (referred to herein as "Section 17200" or the "UCL").

9       24. Plaintiff Daniel Egerter is a natural person who resides in the State of California.  
10 Mr. Egerter purchased one or more apps through the Google Play Store; and, also purchased in-app  
11 digital content through one or more apps offered in the Google Play Store from August 16, 2016,  
12 to the present, and paid Google directly for these purchases. Mr. Egerter is (1) a proposed  
13 representative of the national class asserting claims under the federal antitrust laws; (2) a proposed  
14 representative of a national class asserting claims under the Cartwright Act or, in the alternative, a  
15 proposed representative for Cartwright Act claims for Repealer States; and (3) a proposed  
16 representative of a national class asserting claims under the UCL.

17       25. Plaintiff Zack Palmer is a natural person who resides in the State of Massachusetts.  
18 Mr. Palmer purchased one or more apps through the Google Play Store; and, also purchased in-  
19 app digital content through one or more apps offered in the Google Play Store from August 16,  
20 2016 to the present, and paid Google directly for these purchases. Mr. Palmer is (1) a proposed  
21 representative of the national class asserting claims under the federal antitrust laws; (2) a proposed  
22 representative of a national class asserting claims under the Cartwright Act or, in the alternative, a  
23 proposed representative for Cartwright Act claims for Repealer States and (3) a proposed  
24 representative of a national class asserting claims under the UCL.

25       26. Plaintiff Serina Moglia is a natural person who resides in the State of New York.  
26 Ms. Moglia made one or more purchases of in-app digital content through one or more apps offered  
27 in the Google Play Store from August 16, 2016 to the present and paid Google directly for these  
28 purchases. Ms. Moglia is (1) a proposed representative of the national class asserting claims under

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1 the federal antitrust laws; (2) a proposed representative of a national class asserting claims under  
2 the Cartwright Act or, in the alternative, a proposed representative for Cartwright Act claims for  
3 Repealer States and (3) a proposed representative of a national class asserting claims under the  
4 UCL.

5 27. Plaintiff Matthew Atkinson is a natural person who resides in the States of  
6 Wisconsin. Mr. Atkinson made one or more purchases of in-app digital content through one or more  
7 apps offered in the Google Play Store from August 16, 2016 to the present and paid Google directly  
8 for these purchases. Mr. Atkinson is (1) a proposed representative of the national class asserting  
9 claims under the federal antitrust laws; (2) a proposed representative of a national class asserting  
10 claims under the Cartwright Act or, in the alternative, a proposed representative for Cartwright Act  
11 claims for Repealer States and (3) a proposed representative of a national class asserting claims  
12 under the UCL.

13 28. All proposed national class representatives and members of the nationwide Class  
14 purchased apps and/or made in-app purchases directly from Google. When consumers obtain  
15 applications, they do so directly from the Google Play Store, and when they pay for those  
16 applications or in-app content, they do so directly to Google through Google Play Billing. Because  
17 the proposed nationwide class representatives and members of the nationwide class paid Google  
18 directly for these purchases, they have federal antitrust claims. *See Apple v. Pepper*, 139 S. Ct. 1514  
19 (2019). Google has judicially admitted in the case brought by application developers that consumers  
20 are direct purchasers and may assert overcharge damages under the federal antitrust laws. *See*  
21 Google's Separate Memorandum of Points and Authorities Re: Defendants' Motion To Dismiss  
22 Developers' Claim For Damages (ECF No. 91-1). In this case, however, Google has refused to  
23 stipulate that Plaintiffs and the Class are direct purchasers.

24 29. Each of the Plaintiffs named above are proposed national class representatives for  
25 federal antitrust claims and proposed representatives of a national class for the Cartwright and  
26 Unfair Competition claims alleged in this Complaint. Alternatively, each of these proposed national  
27 class representatives would litigate Cartwright Act claims by representing a class of plaintiffs in  
28

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1 Repealer States (*i.e.*, states whose law permits indirect purchaser standing and provides for antitrust  
2 recovery for indirect purchasers).

3       **B. Defendants**

4       30. Defendant Google, LLC is a Delaware limited liability company with its principal  
5 place of business in Mountain View, California. Google, LLC is the primary operating subsidiary  
6 of the publicly traded holding company Alphabet Inc. The sole member of Google, LLC is XXVI  
7 Holdings, Inc., a Delaware corporation with its principal place of business in Mountain View,  
8 California. Since 2005, Google, LLC has owned and developed the Android OS for use in Android-  
9 licensed mobile devices. Google, LLC is also the owner of the Google Play Store. Google, LLC  
10 contracts with all app developers that distribute their apps to consumers through the Google Play  
11 Store; and, is therefore, a party to the anticompetitive contractual restrictions at issue in this suit.

12       31. Defendant Google Ireland Limited (“Google Ireland”) is a limited liability company  
13 organized under the laws of Ireland with its principal place of business in Dublin, Ireland, and is a  
14 subsidiary of Google, LLC. Google Ireland contracts with all app developers that distribute their  
15 apps through the Google Play Store; and, is therefore, a party to the anticompetitive contractual  
16 restrictions at issue in this suit.

17       32. Defendant Google Commerce Limited (“Google Commerce”) is a limited liability  
18 company organized under the laws of Ireland with its principal place of business in Dublin, Ireland,  
19 and is a subsidiary of Google, LLC. Google Commerce contracts with all app developers that  
20 distribute their apps through the Google Play Store; and, is therefore, a party to the anticompetitive  
21 contractual restrictions at issue in this suit.

22       33. Defendant Google Asia Pacific Pte. Limited (“Google Asia Pacific”) is a private  
23 limited liability company organized under the laws of Singapore with its principal place of business  
24 in Mapletree Business City, Singapore, and is a subsidiary of Google, LLC. Google Asia Pacific  
25 contracts with all app developers that distribute their apps through the Google Play Store; and, is  
26 therefore, a party to the anticompetitive contractual restrictions at issue in this suit.

27       34. Defendant Google Payment Corp. (“Google Payment”) is a Delaware corporation  
28 with its principal place of business in Mountain View, California, and is a subsidiary of Google,

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1 LLC. Google Payment provides in-app payment processing services to Android app developers and  
2 Android users and collects a 30% commission on many types of processed payments, including  
3 payments for apps sold through the Google Play Store and in-app purchases made within such apps.

4 **JURISDICTION & VENUE**

5 35. This Court has subject-matter jurisdiction over Plaintiffs' federal antitrust claims  
6 pursuant to the Clayton Antitrust Act, 15 U.S.C. § 26, and 28 U.S.C. §§ 1331 and 1337. The Court  
7 has supplemental jurisdiction over Plaintiffs' Cartwright Act claims and unfair competition claims  
8 under California's UCL (Section 17200) pursuant to 28 U.S.C. § 1367.

9 36. This Court has personal jurisdiction over Defendants. Google, LLC and Google  
10 Payment are headquartered in this District. All Defendants have had sufficient minimum contacts  
11 with the United States, and purposefully availed themselves of the benefits and protections of  
12 United States and California law, such that the exercise of jurisdiction over them comports with due  
13 process requirements. Further, Defendants consented to the exercise of personal jurisdiction by this  
14 Court.

15 37. Venue is proper in this District pursuant to 28 U.S.C. § 1391(b); because Google,  
16 LLC and Google Payment maintain their principal places of business in the State of California and  
17 in this District; because a substantial part of the events or omissions giving rise to Plaintiffs' claims  
18 occurred in this District; and because, pursuant to 28 U.S.C. § 1391(c)(3), any Defendant not  
19 residing in the United States may be sued in any judicial district and their joinder with others shall  
20 be disregarded in determining proper venue.

21 38. In the alternative, personal jurisdiction and venue are also proper under Section 12  
22 of the Clayton Antitrust Act, 15 U.S.C. § 22, because Defendants may be found in or transact  
23 business in this District.

24 **FACTUAL ALLEGATIONS**

25 **I. THE RELEVANT MARKETS**

26 39. Google's anticompetitive conduct spans (1) the Licensable Mobile Operating  
27 System Market; (2) the Android Application Distribution Market; and (3) the In-App  
28 Aftermarket.

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1           **A. The Licensable Mobile Operating System Market**

2       40. Mobile devices require an OS that enables multi-purpose computing functionality,  
3 including, but not limited to (1) button, touch, and motion commands; (2) a “graphical user  
4 interface” made up of icons allowing the user to take action; (3) basic operations such as cellular or  
5 WiFi connectivity, GPS positioning, camera and video recording, and speech recognition; and  
6 (4) the installation and operation of compatible mobile apps.

7       41. Mobile devices cannot be used by purchasers without an OS that controls the device  
8 and serves as a platform for other apps and functions.

9       42. In addition to providing basic functions for mobile device users, an OS provides a  
10 software development platform for app developers. An OS contains code, including application  
11 programming interfaces (“APIs”), that allows developers to write apps that run on the OS and are  
12 compatible with other apps or platforms an OS developer distributes or bundles with its OS.

13      43. An OEM must pre-install an OS on each mobile device prior to its sale so that  
14 purchasers immediately have access to basic functions like the ones described above.

15      44. Mobile device manufacturers have two options for an OS: (1) they can develop their  
16 own OS, or (2) they can license an OS. The vast majority of OEMs do not develop their own OS,  
17 so they must choose and license an OS for their devices. There is, therefore, a relevant market for  
18 licensable mobile operating systems for OEMs to install on their mobile devices.<sup>2</sup>

19      45. Historically, this market included the Android OS, developed by Google; the Tizen  
20 mobile OS, a partially open-source mobile OS that was developed by the Linux Foundation and  
21 Samsung; and the Windows Phone OS developed by Microsoft. Apple’s iOS is a broadly-used  
22 mobile OS in the United States, but it is not licensed by Apple to other mobile device manufacturers.

23      46. Licensable smart mobile operating systems are a relevant antitrust market. Although  
24 desktop and laptop computers, and game consoles also use operating systems, those operating  
25 systems are not compatible with smart mobile devices, and neither computers nor game consoles

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28      <sup>2</sup> This market does not include any proprietary OS that is not available for licensing, such as  
Apple’s mobile OS, called iOS.

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1 are substitutes for mobile devices. A small but significant price increase in mobile devices would  
2 not cause consumers to substitute either desktop, laptops, or consoles for their devices.

3       47. The geographic scope of the Licensable Mobile Operating System Market is the  
4 United States. The Licensable Mobile Operating System Market operates as described throughout  
5 this Complaint.

6       48. Google has a monopoly over licensable mobile OS platforms, both globally and in  
7 the United States, accounting for over 95% of licensable mobile OSs for mobile devices—  
8 smartphones and tablets—in the United States alone.

9                   **B. The Android Application Distribution Market**

10       49. There is also a relevant market for the distribution of Android OS compatible apps  
11 to mobile device users. This market is made up of all the channels by which Android OS compatible  
12 apps on mobile devices are distributed to the hundreds of millions of mobile Android OS users. The  
13 market primarily includes app downloads in Google's dominant Google Play Store, with smaller  
14 stores, such as Samsung's Galaxy Store and Aptoide, trailing far behind. Nominally only, the direct  
15 downloading of apps without using an app store (sometimes called "sideloading") is also part of  
16 this market.

17       50. Notably, Google tries to deter sideloading through an array of technological hurdles,  
18 including a complicated multi-step process requiring the user to make changes to the device's  
19 default settings and manually granting various permissions, while encountering multiple,  
20 unfounded security warnings that suggest sideloading is unsafe. In addition, as Google well  
21 recognizes, most users are likely to simply acquire their applications through the application stores  
22 that comes pre-loaded on their mobile devices. Therefore, while it is theoretically possible to obtain  
23 apps through means other than an app store like the Google Play Store, the vast majority of users  
24 utilize a pre-installed app store to purchase and download apps. Indeed, only █ of active Android  
25 devices have sideloaded an alternative Android app store. Users' ability to sideload does not  
26 constrain Google's power because Google controls the underlying technology utilized for  
27 sideloading.

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1       51.     App stores allow consumers to use their mobile device to browse, search for, access  
2 reviews on, purchase (if necessary), download, and install mobile apps. It would be commercially  
3 unreasonable for an OEM to sell a smart mobile device without an app store since the ability to  
4 find, purchase, and download apps is one of the primary benefits of such devices.

5       52.     App stores are OS-specific and only distribute apps compatible with a specific  
6 mobile OS. An Android OS mobile device owner will use an Android-compatible app store that  
7 distributes only Android-compatible apps. Consumers may not, for example, substitute Apple's  
8 App Store because (1) Apple's App Store is not available for Android devices and (2) the Apple  
9 App Store does not offer Android-compatible apps. Consequently, non-Android mobile app  
10 distribution platforms—such as the Windows Mobile Store used on Microsoft's Windows Mobile  
11 OS, the Apple App Store used on Apple iOS devices, and gaming stores for specific consoles like  
12 the Sony PlayStation and/or Nintendo Switch—are not part of the Android Application Distribution  
13 Market.

14       53.     Even if an app is available on different OS platforms, only the version of that  
15 software compatible with a specific OS can run on a specific device, console, or computer.  
16 Accordingly, as a commercial reality, any app developer that wishes to distribute apps for Android  
17 mobile devices must develop an Android-specific version of the app that is distributed through the  
18 Android Application Distribution Market.

19       54.     The geographic scope of the Android Application Distribution Market is the United  
20 States.

21       **C.     The In-App Aftermarket**

22       55.     The In-App Aftermarket is a relevant antitrust aftermarket for distribution of and  
23 associated payment systems for digital accessories or enhancements to mobile applications.

24       56.     Once an application is downloaded, developers may offer various separate products  
25 within the app. Those "in-app" products or enhancements can range from acquiring a sword or  
26 adding clothes or different colors on the avatars in a game to subscribing to digital content such as  
27 music or news to purchasing add free versions of apps.

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1       57. Users cannot obtain this aftermarket digital content without developers being able  
2 to distribute and to offer a means of paying for it. There are no reasonable substitutes for distribution  
3 and payments systems for Android compatible aftermarket digital content. No small but significant  
4 sustained price increase obviates the need for Android compatible aftermarket distribution and  
5 payment.

6       58. There are multiple potential providers of In-App Aftermarket distribution and  
7 payments systems that, absent Google's aftermarket restrictions, could deliver and offer payment  
8 for aftermarket Android-compatible digital content. These in-app transactions need not happen  
9 through the Google Play Store nor be paid through Google Play Billing. Absent Google's  
10 restrictions, developers could distribute their aftermarket products to their customers directly, they  
11 could create their own payment systems, or they could use some other store and third-party payment  
12 system to effectuate the transaction.

13       59. The distribution of in-app products requires a payment system to efficiently transact  
14 the purchase. Payment systems consist of software that performs the necessary steps to verify and  
15 accept a customers' purchase, as well as other associated functions, such as storage of user  
16 information, invoicing, tracking payment history, and processing refunds. Payment systems are  
17 separate products from application distribution stores, they can be offered separately and, in fact,  
18 are widely demanded separately.

19       60. However, to enforce its requirement that all subsequent sales not only go through  
20 Google, but are subject to Google's anticompetitive toll in perpetuity, Google requires developers  
21 to use its payments system, Google Play Billing, for all in-app purchases. Under normal competitive  
22 conditions, developers could transact with their customers directly by creating their own payment  
23 systems, or they could use payment systems provided by third parties. Such alternative payment  
24 systems include competitors or potential competitors like PayPal, Stripe, Codashop, or proprietary  
25 payment system software written by app developers.

26       61. For a developer that desires to make sales of its application or in-app products, there  
27 are no substitutes for in-app payment systems that contain the software necessary to effectuate such  
28 transactions, including payment processing, data storage, and reporting services. Developers

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1 require the ability to offer efficient and seamless purchases within their applications. Without in-  
2 app payment systems, developers would not be able to sell as many products, as users might  
3 abandon the purchase or go elsewhere. Payment systems that require exiting the app to complete  
4 the transaction are not reasonable substitutes for developers or consumers. Thus, a provider of in-  
5 app payment systems can raise its price by a small but significant amount, and for a non-transitory  
6 period, without inducing developers to use other methods of transacting in-app sales.

7       62. Google is not constrained from exercising monopoly power in the In-App  
8 Aftermarket because Google has monopoly power in the Android Application Distribution Market,  
9 and therefore almost all developers have no commercially viable choice but to use the Google Play  
10 Store for the distribution of their applications and in-app products. Similarly, consumers are largely  
11 unaware of Google's anticompetitive restrictions, and, in any event, lack the necessary information  
12 to effectively determine the amount they will pay throughout the lifecycle of their applications and  
13 in-app purchases, and therefore do not constrain Google's anticompetitive tax.

14       63. The geographic scope of the In-App Aftermarket is the United States. The In-App  
15 Aftermarket operates as described throughout this Complaint.

16 **II. GOOGLE HAS MONOPOLY POWER IN THE MARKETS FOR LICENSABLE  
17 MOBILE OPERATING SYSTEMS AND IN THE ANDROID APPLICATION  
18 DISTRIBUTION MARKET**

19       A. **Google's Monopoly Power Over the Market for Licensable Mobile Operating  
20 Systems**

21       64. After Google acquired the Android OS in 2005, it advertised it as an "open-source"  
22 operating system. Indeed, Google routinely touted that the Android source code was "available for  
23 anyone to view, download, modify, enhance, and redistribute." It suggested that developers would  
24 have "an open and unobstructed environment to make their content available."

25       65. But, in fact, even at that time, Google knew that its commitment to "openness" was  
26 a fallacy. It intended to control every aspect of Android.

27       66. Google enjoys monopoly power in the Licensable Mobile Operating System Market  
28 through Android OS, which is the Google-certified version of Android.

29       67. The barriers to entry in the Licensable Mobile Operating System market are high.

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1       68. A mobile ecosystem of products like apps and accessories typically develops around  
2 one or more mobile OSs, such as the Android OS. The “Android ecosystem” is, therefore, a system  
3 of products for mobile devices that are inter-dependent and compatible with each other.

4       69. OEMs design mobile devices to ensure compatibility with whatever OS was selected  
5 for that device. For OEMs, the process of implementing a mobile-device OS requires significant  
6 time and investment. Thus, switching to another mobile-device OS is difficult, expensive and time-  
7 consuming. OEMs that developed their devices around the Android OS would face substantial costs  
8 to switch to another OS, a reality that furthers Google’s monopoly power in the Licensable Mobile  
9 Operating System Market.

10      70. Cementing its dominance and creating barriers to entry, Google has long restricted  
11 OEMs from developing or distributing their own version of Android. But for this restriction, anyone  
12 could access the Android source code and create a modified OS, known as a fork. Yet, as a pre-  
13 condition to receiving a license to distribute Google apps and APIs—the set of technical  
14 specifications that enable software applications to communicate with each other, OSs, and  
15 hardware, Google requires OEMS to enter into anti-forking agreements—Anti-Fragmentation  
16 Agreements or Android Compatibility Commitments—that forbid them to (1) develop or distribute  
17 their own versions of Android, or (2) do anything that may cause or result in the fragmentation of  
18 Android. . These anti-forking agreements allow Google to maintain its stranglehold over licensable  
19 OSs for mobile devices, and, therefore, the Android Application Distribution Market.<sup>3</sup>

20      71. Moreover, and as evidence of its market power over OEMs, Google uses the  
21 Android OS to restrict which apps and app stores OEMs pre-install on their devices and to deter the  
22 direct distribution of competing app stores and apps to Android users, all at the expense of  
23 competition in the Android ecosystem.

24  
25  
26      <sup>3</sup> The European Commission found the anti-forking requirements to be an abuse of a dominant position,  
27 thwarting even potential competitors such as Amazon from succeeding in the mobile operating system  
28 market. See “Antitrust: Commissions fines Google €4.34 billion for illegal practices regarding Android  
[http://europa.eu/rapid/press-release\\_IP-18-4581\\_en.htm](http://europa.eu/rapid/press-release_IP-18-4581_en.htm).

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1       72. OEMs have no commercially viable choice but to license Google's Android OS,  
2 and, in turn, developers must create apps that are compatible with that OS. OEMs such as ZTE and  
3 Nokia have acknowledged that other non-proprietary OSs are poor substitutes for and not a  
4 reasonable alternative to the Android OS; other mobile OSs do not presently support many high-  
5 quality and successful apps deemed essential or valuable by consumers. Google, therefore, has  
6 constructed a market that biases consumers against devices with non-proprietary mobile-device OSs  
7 other than the Android OS, while putting OEMs at Google's mercy because their devices must offer  
8 a popular mobile-device OS and corresponding ecosystem to consumers.

9       73. To attract app developers and users, Google has falsely represented that Android is  
10 an "open" ecosystem where any participant may create Android-compatible products without  
11 unnecessary restrictions. Indeed, when Google in 2008 launched the Android Marketplace, which  
12 was the predecessor to the Google Play Store, Google noted in an Android blog post, "We chose  
13 the term 'market' rather than 'store' because we feel that developers should have an open and  
14 unobstructed environment to make their content available." But, in fact, Google has used the  
15 Android OS to keep its ecosystem closed to competition.

16       74. As the dominant mobile-device OS licensor, Google recognizes that participation  
17 on its platform is a "must-have" market for developers. Google only unlocks the door to its  
18 ecosystem for participants willing to play by Google's rules and anticompetitive restrictions.

19           **B. Google's Monopoly Power in the Android Application Distribution Market**

20       75. Google also has monopoly power in the Android Application Distribution Market  
21 through the Google Play Store.

22       76. Other existing Android mobile app stores cannot thwart Google's monopoly power  
23 in the Android Application Distribution Market because no other app store reaches nearly as many  
24 Android users as the Google Play Store, and Google's anticompetitive conduct has kept it that way.  
25 No other Android app store comes close to the number of pre-installed users that Google has.  
26 Setting aside app stores designed by a particular OEM for installation in the mobile device sold by  
27 that OEM (for example, Samsung's Galaxy Store and the LG Electronics App Store), no other  
28 Android app store, except the Google Play Store, is pre-installed on more than [REDACTED] of Android

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1 mobile devices, and many have no appreciable market penetration at all. Aptoide, for example, is  
2 an Android app store that claims to be the largest “independent” app store outside China, but it  
3 comes pre-installed on no more than [REDACTED] of Android mobile devices.

4 77. Because there is no economically viable substitute to the Google Play Store for  
5 distribution of Android apps, Google has a monopoly over the Android Application Distribution  
6 Market.

7 78. Google’s monopoly power is demonstrated by its massive market share in terms of  
8 apps downloaded. The Google Play Store offers over three million apps, including all the most  
9 popular Android apps, compared to just 700,000 apps offered by Aptoide, the Android app store  
10 with the next largest listing. Google’s share of the market can also be inferred through the  
11 percentage of devices sold with the Google Play Store preinstalled, which is nearly all Android OS  
12 devices sold by the major OEMs. In short, Google’s share of the market – however measured – well  
13 exceeds that of any actual or potential competitor.

14 79. The Google Play Store benefits from the large number of participating app  
15 developers and users. The ever-growing variety of apps attracts more and more users, and, in turn,  
16 the audience attracts app developers who wish to access those users. The system feeds itself.  
17 Consequently, because of Google’s restrictions described herein, OEMs of Android OS mobile  
18 devices have no other commercially viable option than to make and sell smartphones or tablets with  
19 Google Play Store.

20 80. As further proof of its monopoly power, Google imposes a supra-competitive  
21 commission of up to 30% on the price of apps purchased through the Google Play Store and in-app  
22 purchases processed through Google Play Billing, the use of which is mandated by Google’s  
23 restrictions on app developers whose apps are distributed through the Google Play Store.

24 81. This is a far higher commission than would exist under competitive conditions, as  
25 demonstrated, for example, by Microsoft’s recent announcement that it will decrease the Microsoft  
26 Store’s commission for PC games from its current range of 15%-30% to 12% beginning August 1,  
27 2021. This, Microsoft explained, “means developers can bring more games to more players and  
28 find greater commercial success from doing so.” Other platforms, too, charge less for distribution

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1 than does the Google Play Store. Epic Games, Inc. (“Epic”), for example, charges 12% for  
2 transactions on the Epic Games Store.

3       82.     Google’s market power results in enormous profits. In 2020 alone, the Google Play  
4 Store generated revenues of [REDACTED], accounting for over [REDACTED] percent of the company’s total  
5 revenue in that year of [REDACTED]

6       83.     No other application delivery store constrains Google’s power. Though some  
7 devices, such as Samsung’s Galaxy devices, carry stores other than the Google Play Store, those  
8 stores do not serve as a significant constraint on Google’s ability to raise prices or exclude  
9 competition. The Samsung Galaxy Store, for instance, is only on Samsung devices, and not on any  
10 non-Samsung devices. No developer, therefore, can reach nearly 100% of Android devices through  
11 the Galaxy Store, as they do with Google’s Play Store. Nor does the Galaxy Store have near the  
12 breadth of applications available in the Google Play Store. In addition, Google prevents the Galaxy  
13 Store from exclusively distributing even a handful of the largest and most important apps—  
14 something that Google viewed as necessary for Samsung to gain enough momentum to become  
15 successful. Thus, the Galaxy Store does not serve as a true competitive alternative capable of  
16 constraining Google’s monopoly power.

17       84.     Google has long recognized the need to keep any potential competitors at bay,  
18 maintaining its iron grip on its market power. For instance, long concerned about Samsung’s ability  
19 to pre-install competing app stores, including Samsung’s own Galaxy Store, Google has repeatedly  
20 pursued additional methods to reinforce the stringent Mobile Application and Distribution  
21 (“MADA”) restrictions that it imposes on OEMs, detailed below. [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]

25 [REDACTED] (emphasis added).

26       85.     More recently, faced with the prospect that Samsung’s Galaxy Store might distribute  
27 important applications, [REDACTED]  
28 [REDACTED]

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1 [REDACTED]  
2 [REDACTED]  
3 [REDACTED]  
4 [REDACTED]  
5 [REDACTED]  
6 [REDACTED]  
7 [REDACTED]  
8 [REDACTED]  
9 [REDACTED] In short, Google would hobble Galaxy as a potential competitor.

10 86. The plan specifically called for Google to [REDACTED]  
11 [REDACTED]  
12 [REDACTED]  
13 [REDACTED]  
14 [REDACTED]

15 [REDACTED] allowing  
16 Google to maintain its stranglehold on the monopoly profits that it continues to reap, year after year.  
17 And, critically, Google would continue to control the holy grail: capturing the revenue from in-app  
18 purchases.

19 87. In return for Samsung agreeing to [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]

23 88. Despite distribution on Galaxy phones, the Galaxy Store far trails the Google Play  
24 Store, which is given the predominate position on those Samsung phones. In 2019, for instance,  
25 Google estimated that Samsung made around \$0.1B in revenue on its Galaxy Store, while Google  
26 made around [REDACTED] in sales through the Google Play Store on Samsung phones. The Galaxy Store  
27 does not constrain Google's abuse of its power, and Google's internal plans show that Google  
28 intends to keep it that way.

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1       89.     Google did not stop there, however. Dissatisfied with maintaining its power through  
2 restrictive OEM agreements alone, Google has devised—and implemented—a plan to pay off the  
3 largest developers who threatened to defect from the Google Play Store. While the vast majority of  
4 developers have no such choice, some of the largest developers were fed up with Google's  
5 extraordinary toll and agitated for change. Fearing that these developers could ultimately establish  
6 a new, competitive app distribution channel, either by supporting another app store or creating one  
7 themselves, Google sprang into action. It offered “incentives” for those developers who posed the  
8 largest risk of increasing competition in app distribution. Those incentives have ensured not only  
9 continued distribution through the Google Play Store, but the agreements foreclosed the ability of  
10 any app store other than Google's to exclusively distribute these important applications.

11       90.     In a competitive world, Google would have to lower its toll for *all* developers.  
12 Because it lacks competition, however, Google can set its toll, discriminating in favor of some  
13 developers—as only a firm with market power can do.

14       91.     Though Google might not yet have succeeded in eliminating once and for all the risk  
15 of every single potential competitor, including Samsung's Galaxy store, the web of anticompetitive  
16 restrictions that it has inked and the financial inducements that it has provided over the years to the  
17 largest and most viable potential alternative distribution channels, discussed below, has more than  
18 substantially foreclosed competition from rival app stores by anticompetitively raising their costs  
19 to compete, while eliminating most incentives to doing so.

20       92.     Google's monopoly power in app distribution is not constrained by competition at  
21 the smart mobile-device level either, and therefore, is not limited by Apple or its iOS.

22       93.     First, consumers are deterred from leaving the Android ecosystem due to the  
23 difficulty and costs of switching. Consumers choose a smartphone or tablet based in part on the pre-  
24 installed OS and its ecosystem. Once a consumer selects a smartphone or tablet, the consumer  
25 cannot replace the pre-installed mobile OS with an alternative. If they want to switch OSs, the  
26 consumer must purchase a new mobile device. In addition, mobile OSs have different designs,  
27 controls, and functions that consumers learn to navigate over time. The cost of learning to use a  
28 different mobile OS is part of consumers' switching costs.

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1       94. Second, switching from Android devices may result in a significant loss of personal  
2 and financial investment that consumers put into the Android ecosystem. Because apps, in-app  
3 content, and many other products are designed for or are only compatible with a particular mobile  
4 OS, switching to a new mobile OS may mean losing access to such products or data, even if such  
5 apps and products are available within the new ecosystem. Of particular concern to many consumers  
6 is the risk of losing access to items of personal or sentimental significance—such as photographs  
7 or videos of loved ones—that might prove irreplaceable if lost when switching devices. Consumers  
8 switching from the Android OS would, consequently, lose their investment in the Android-specific  
9 apps previously purchased or used.

10      95. Consumers are also unable to determine the “lifecycle price” of devices—*i.e.*, to  
11 accurately assess at the point of purchase how much they will ultimately spend (including on the  
12 device and all apps and in-app purchases) for the duration of their device ownership. Consumers  
13 cannot predict all the apps or in-app content they may eventually purchase. Because they cannot  
14 know or predict all such factors when purchasing mobile devices, consumers are unable to calculate  
15 lifecycle prices for the devices. This prevents consumers from effectively taking Google’s  
16 anticompetitive conduct into account when making mobile device purchasing decisions.

17      96. Given consumers’ essentially unavoidable “lock-in” to the Android OS, developers  
18 must participate in the Android ecosystem. The alternative is losing access to millions of Android  
19 users. Google’s monopoly power remains unchallenged and durable.

20      **III. GOOGLE UNLAWFULLY MAINTAINS A MONOPOLY IN THE ANDROID  
21 APPLICATION DISTRIBUTION MARKET**

22      97. Mobile apps make mobile devices more useful and valuable because they add user-  
23 specific functionality like working, video chatting, banking, shopping, job hunting, photo editing,  
24 reading digital news sources, editing documents, or playing a game like Hearthstone, Fortnite, or  
25 Pok  mon Go. Many consumers own only a mobile device and, even if they could perform the same  
26 or similar functions on a personal computer, the ability to access apps “on the go” using a handheld,  
27 portable device remains valuable and important.

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1       98. Consequently, mobile devices must provide an avenue for downloading. On  
2 Android devices, this is primarily done through the Google Play Store. Through this store, mobile  
3 apps can be browsed, purchased (if necessary), and downloaded by a consumer. App stores such as  
4 Google Play Store, alongside other limited distribution platforms available to the hundreds of  
5 millions of Android-based mobile device users, comprise the Android Application Distribution  
6 Market.

7       **A. Google's Anticompetitive Agreements Imposed on OEMs and Mobile Network  
8 Operators Foreclose Competitors in the Android Application Distribution  
Market**

9       99. Through various anticompetitive acts and unlawful restraints on competition,  
10 Google maintains a monopoly in the Android Application Distribution Market, causing ongoing  
11 harm to competition and to app developers and consumers. Google's restraints of trade undermine  
12 its representations that, "as an open platform, Android is about choice," and that app developers  
13 "can distribute [their] Android apps to users in any way [they] want, using any distribution approach  
14 or combination of approaches that meets [their] needs," including by allowing users to directly  
15 download apps "from a website" or even by "emailing them directly to consumers."

16       100. Indeed, senior Google executives have echoed the importance of Google's openness  
17 in mobile devices. For example, a Senior Vice President at Google explained Google's "open"  
18 philosophy as follows: "In an open system, a competitive advantage doesn't derive from locking in  
19 customers, but rather from understanding the fast-moving system better than anyone else and using  
20 that knowledge to generate better, more innovative products." Accordingly, the openness "allow[s]  
21 innovation at all levels—from the operating system to the application layer—not just at the top" to  
22 facilitate "freedom of choice for consumers" and a "competitive ecosystem."

23       101. Similarly, in 2011, Google's then Senior Vice President of Mobile falsely  
24 represented that "device makers are free to modify Android to customize any range of features for  
25 Android devices" except for some basic compatibility requirements.

26       102. Moreover, then Chairman of Google, Eric Schmidt, was asked at a 2011 Senate  
27 hearing about competition in online search about whether Google has demanded that OEMs make  
28 Google the default search engine as a condition of using the Android OS. In response, Schmidt

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1 noted that Google did not make such a demand and that “[o]ne of the greatest benefits of Android  
2 is that it fosters competition at every level of the mobile market—including among application  
3 developers. Google respects the freedom of manufacturers to choose which applications should be  
4 pre-loaded on Android devices. Google does not condition access to or use of Android on pre-  
5 installation of any Google application or on making Google the default search engine . . .”

6       103. Even today, the Google owned and operated Android Open Source Project website  
7 emphasizes that: “Google started the Android project in response to our own experiences launching  
8 mobile apps. We wanted to make sure there would always be an open platform available for carriers,  
9 OEMs, and developers to use to make their innovative ideas a reality. We also wanted to avoid any  
10 central point of failure, ***so no single industry player could restrict or control the innovations of  
any other.***” (emphasis added).

12       104. These representations, which include statements by some of the most senior Google  
13 executives, were misleading or false.

14       105. Google’s internal documents reveal a reality far different from the tale Google told  
15 in its public statements. Far from “foster[ing] competition at every level of the mobile market,” in  
16 2009, Google told a major OEM that it believed a “single ‘app store’” was an essential piece of the  
17 Android ecosystem, and that it was working to make the then Play Store, Android Market, “that  
18 single \*open\* distribution system.” (internal quotes in original).

19       106. A more recent internal planning memorandum [REDACTED]

20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]

24       107. As described below, Google has willfully and unlawfully maintained its monopoly  
25 in the Android Application Distribution Market through a series of related anticompetitive acts  
26 designed to foreclose alternative and competing Android app distribution channels.

27           i. ***Anticompetitive MADA Restrictions Requiring OEMs to Preload and  
Preference Google Play and Preventing OEMs from Pre-Loading Any  
Software Google Deems to “Interfere” with Android.***

**\*\*\*REDACTED VERSION OF DOCUMENT SOUGHT TO BE SEALED\*\*\***

1       108. First, Google imposes anticompetitive restrictions on OEMs. Google conditions  
2 licensing of Google Play Store, other essential Google services, and the Android OS and trademark  
3 on an OEM's agreement to give the Google Play Store preferential treatment. Google requires pre-  
4 installation and prominent placement for the Google Play Store.

5       109. Specifically, Android OEMs (which, as noted above, comprise virtually all OEMs  
6 that obtain an OS in the licensable market) must sign a Mobile Application Distribution Agreement  
7 with Google. A MADA confers a license to a bundle of proprietary Google apps (such as Google  
8 Play, Google Chrome, Gmail, Google Search, Google Maps, and YouTube), Google-supplied  
9 services necessary for mobile app functionality ("Google Play Services"), and the Android  
10 trademark. The MADA *requires* OEMs to locate Google Play Store on the "home screen" of each  
11 mobile device. Android OEMs must further pre-install up to [REDACTED] mandatory Google apps and locate  
12 these apps on the home screen or on the next screen, occupying valuable space on each user's  
13 mobile device that otherwise could be occupied by competing app stores or other services. [REDACTED]  
14 [REDACTED]  
15 [REDACTED]  
16 [REDACTED]

17       110. Google has maintained and enforced its restrictions even in the face of OEM desire  
18 for flexibility. [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]

22       111. These requirements ensure that the Google Play Store is the most visible app store  
23 any user encounters and, therefore the app store that most consumers will simply use by default. As  
24 Google has noted in questioning whether users and developers would really choose Google Play,  
25 given a choice, "if we were honest we would admit that most users and developers aren't  
26 consciously 'choosing' they are going with the default."

27       112. Google's restrictions purposely place all other app stores at a significant  
28 disadvantage. Prominent placement is critical to an app store's success and adoption, but Google

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1 effectively forecloses such placement through a web of agreements with OEMs, including, but not  
2 limited to the MADA agreements. Google's internal documents show it has long understood the  
3 power of default placement.

4       113. Google's OEM restraints prevent or disincentivize competing app stores from vying  
5 for prominent placement on Android devices, which decreases their exposure to consumers and, as  
6 a result, harms their ability to attract app developers to their store. Absent Google's restrictions, an  
7 app distributor could negotiate with OEMs to provide their app stores the most prominent  
8 placement, something that Google currently forbids. Google's contracts, covering over [REDACTED] of  
9 mobile devices using a licensable OS globally, therefore substantially foreclose competition by  
10 relegating would-be competitors to much less visible locations, or even the bottom of the pile.  
11 Google prohibits any OEM that licenses the Android OS—which is the overwhelming majority of  
12 OEMs—from installing *and* featuring any rival app distribution platform more prominently than  
13 the Google Play Store.

14       114. Second, Google interferes with OEMs' ability to license, distribute, and prominently  
15 display competing Android app stores by forcing any OEM who wishes to license even *one* of the  
16 applications included in Google's arbitrarily designated Google Mobile Services (GMS)—a suite  
17 of applications including Google Search, Google Chrome, Gmail, YouTube, Google Maps, and the  
18 Google Play Store—to enter a MADA that requires that OEM to license and prominently display  
19 *every* GMS application. Accordingly, if an OEM only wants to pre-install Google Chrome, it cannot  
20 do so without pre-installing *all* applications in GMS. The limited real estate on a mobile device  
21 screen and the requirement that the GMS apps be displayed prominently makes it impractical for  
22 competing third-party app stores to gain equally prominent placement.

23       115. When faced with the prospect of competition, Google has tightened its MADA  
24 restrictions. For instance, in 2014, even though it recognized that “android storefronts [other than  
25 Play] are relatively small,” Google recognized that social apps—like messaging apps—had begun  
26 to facilitate the download and installation of third-party apps and app stores. Indeed, Kakao, a  
27 Korean messaging app, was operating at that time with the philosophy that “Communication  
28

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1 shouldn't just be limited to emoticons, images, and text. Third-party developers could be part of  
2 Kakao's platform."

3 116. [REDACTED]

4 [REDACTED]  
5 [REDACTED]  
6 [REDACTED]  
7 [REDACTED]  
8 [REDACTED]

9 117. [REDACTED]

10 [REDACTED]  
11 [REDACTED]  
12 [REDACTED]  
13 [REDACTED]  
14 [REDACTED]

15 118. [REDACTED]

16 [REDACTED] So, Google updated its DDA and altered Section  
17 4.5 as follows: "You may not use Google Play to distribute or make available any Product that has  
18 a purpose that facilitates the distribution of software applications and games for use on Android  
19 devices outside of Google Play." [REDACTED]

20 [REDACTED]  
21 [REDACTED]

22 119. At the same time, worried about the Amazon store [REDACTED]

23 [REDACTED]  
24 [REDACTED]

25 120. Broadly drafted provisions of the MADAs give Google significant control of the  
26 choice of applications that an OEM preloads or installs on a device. For instance, [REDACTED]

27 [REDACTED]  
28

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1 [REDACTED]  
2 [REDACTED]  
3 121. Google has used these provisions to block the pre-installation potential competitors.  
4 For instance, when Epic Games attempted to gain preinstallation on OnePlus, an Android OEM, it  
5 was notified that Google was “preventing the preload of the Epic Games app with install package  
6 permissions,” and that Google was “particularly concerned that the Epic Games app would have  
7 the ability to potentially install and update multiple games with a silent install bypassing the Google  
8 Play Store.”

9 122. Google also conditions the distribution of Google’s version of Android, including  
10 the GMS suite, on the entry of separate anti-forking or, more recently, “compatibility” agreements.  
11 Google prohibits OEMs from modifying the Android source code, which prevents OEMs from  
12 making changes to Android OS that would facilitate preloaded or side-loaded app stores and  
13 eliminate certain of the technical hurdles for competing app stores.

14 123. The anti-forking agreements have prohibited OEMs from developing other phones  
15 and software based on modified Android code even if those phones and software do not contain  
16 any Google apps or products. The AFAs dictate that OEMs may only [REDACTED]

17 [REDACTED]  
18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED] Further, because of Google’s AFAs, OEMs cannot modify Android to  
21 allow for frictionless downloading of apps outside of the Google Play Store, further foreclosing the  
22 App Distribution Market to competitors. [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED]  
26 [REDACTED]

27 124. OEMs must agree and have agreed to Google’s anticompetitive, restrictive terms  
28 and conditions or risk losing access to the Android OS and Google Play Services, including the

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1 APIs that many mobile-app developers need for their apps to work properly. Without Google Play  
2 Services, apps cannot provide critical functionality such as “push notifications,” or location  
3 detection.

4 125. Just as with Google’s claims of “openness,” its representation, through its then Chair  
5 Eric Schmidt during a 2011 Senate hearing, that Android “fosters competition at every level of the  
6 mobile market,” and that “Google respects the freedom of manufacturers to choose which  
7 applications should be pre-loaded on Android devices,” were false.

8 126. The totality of Google’s conduct aimed at preventing distribution through one of the  
9 most effective means available—preinstallation on devices—has substantially foreclosed  
10 competition, allowing Google to maintain its monopoly.

11           *ii. Revenue Sharing Agreements with Mobile Network Carriers and OEMs.*

12 127. Google has long excluded, discouraged, or disincentivized competition through  
13 revenue sharing agreements with potential competitors and new entrants alike. In short, these  
14 agreements seek to pay off OEMs and mobile network operators over time to ensure the Google  
15 Play Store’s prominence—and even exclusivity.

16 128. For instance, as early as 2009, Google understood that mobile network operators  
17 “control[led] content distribution and access to end users” and that the mobile network operators  
18 would not be “willing to give up the revenue stream on content distribution.” Google anticipated  
19 that mobile network operators would “block Market if we don’t share revenue and/or continue with  
20 siloed app stores.” Google’s “Android Market Strategy” was therefore designed to “[p]rovide  
21 incentive[s] for operators to distribute Android market”, which would “offset [the] opportunity  
22 cost” of creating or distributing a competing app store.

23 129. Indeed, [REDACTED]

24 [REDACTED]

25 [REDACTED]

26 [REDACTED]

27 [REDACTED]

28 [REDACTED]

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1       130. The importance of preloading and prominently displaying certain applications  
2 cannot be overstated. According to Google, requiring mobile network operators who distribute  
3 mobile devices to commit that there be [REDACTED] for GMSA apps [REDACTED]  
4 [REDACTED]  
5 [REDACTED]

6       131. Unsurprisingly, Google has entered into similar agreements with other major mobile  
7 network operators. These agreements virtually ensure *de facto* Google Play exclusivity on devices  
8 distributed by those mobile network operators. As a senior Google executive candidly explained by  
9 in a 2014 presentation, [REDACTED]  
10 [REDACTED]

11       132. Like with mobile network operators, the idea of cutting OEMs into some of  
12 Google's monopoly profits in return for promises not to compete (or promote competition) has  
13 similarly been relied upon by Google for many years. Indeed, Google has long recognized that  
14 [REDACTED]  
15 [REDACTED]

16       133. Weaving the [REDACTED]  
17 [REDACTED] with major OEMs was Google's attempt to avoid antitrust scrutiny. As a high-level Google  
18 executive noted: "let's discuss in the car..." [REDACTED]  
19 [REDACTED]

20       134. Thus, when faced with potential competition from the likes of Microsoft and  
21 Amazon, Google noted in an internal strategy document that it would respond by [REDACTED]  
22 [REDACTED]  
23 [REDACTED]

24       135. [REDACTED]  
25 [REDACTED]  
26 [REDACTED]  
27 [REDACTED]  
28 [REDACTED]

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1 [REDACTED]  
2 [REDACTED]  
3 [REDACTED].

4 136. Discovery is ongoing. Though Google's internal documents show that over [REDACTED]  
5 [REDACTED]  
6 [REDACTED] it remains to be seen exactly how  
7 many OEMs have entered [REDACTED] Google's intent, however, is clear:  
8 securing exclusivity for the Google Play Store and foreclosing competition from alternative  
9 application distribution platforms.

10 137. Google therefore does not need to mandate exclusivity in its various OEM and  
11 mobile network operator agreements. As candidly described by a Google employee: [REDACTED]  
12 [REDACTED]  
13 [REDACTED]  
14 [REDACTED]  
15 [REDACTED]  
16 [REDACTED]  
17 [REDACTED]

18 138. And the cost for doing so is not cheap; Google expects that it will pay more than  
19 [REDACTED] per year by 2023 [REDACTED]  
20 [REDACTED]

21 139. Though competition in the Android Application Distribution Market is substantially  
22 foreclosed *without* these agreements, Google's plans to coerce and buy off potential distribution  
23 avenues have no end. These additional agreements are—and will continue to be—icing on the cake.

24 **B. Google's Anticompetitive Agreements Imposed on Developers Foreclosing  
25 Competition in the Android Application Distribution Market**

26 140. Google also imposes anticompetitive constraints on app developers by restricting  
27 their ability to provide competing mobile app stores within an app or to inform consumers of  
28

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1 alternative channels of distributions within the app. This has further entrenched Google's monopoly  
2 in the Android Application Distribution Market.

3       141. First, Google prevents developers who go through the Google Play Store from  
4 providing an app that would allow for the downloading of competitive application distribution  
5 stores within that app. In other words, Google prevents the distribution of a competing mobile  
6 storefront for other app purchases even though Google has no legitimate procompetitive  
7 justification for preventing application developers from distributing alternative application delivery  
8 stores.

9       142. Google imposes this restraint through provisions of the Google Play Developer  
10 Distribution Agreement ("DDA"), which all app developers must sign before they can distribute  
11 their apps through the Google Play Store.

12       143. Section 4.5 of the DDA provides that developers "may not use Google Play to  
13 distribute or make available any Product that has a purpose that facilitates the distribution of  
14 software applications and games for use on Android devices outside of Google Play." Google  
15 interprets this provision broadly to not only include traditional app stores but also links to other  
16 locations where an app may be "launched" or otherwise accessed. Google has used Section 4.5 to  
17 stymie competition from Amazon and others alike.

18       144. In 2014, [REDACTED]

19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED] This ensured that an Amazon app store was only available via  
23 sideloading. And then, as discussed in further detail below, Google deliberately made this  
24 sideloading process cumbersome in order to keep potential competition from Amazon and others  
25 suppressed.

26       145. Section 4.9 of the DDA further limits the ability of developers to steer their users to  
27 alternative stores. Once a developer acquires user information through Google Play, that developer  
28 is barred from using that information for any communications that would lead to selling or

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1 distributing products outside of Google Play. This gag rule prevents developers from telling their  
2 customers – directly through their apps – about potential alternative channels for purchasing or  
3 transacting upgrades or enhancements to the application, let alone new applications that the  
4 developers may want to sell to the users directly or through some alternative app store.

5 146. The DDA in Section 8.3 further reserves to Google the right to remove and disable  
6 any Android app that it determines violates its various restrictions imposed through the DDA.

7 147. The DDA is non-negotiable, so developers seeking access to Android users through  
8 the Google Play Store must accept Google’s standardized contract of adhesion. Through the various  
9 restraints imposed through the DDA, Google has exercised its monopoly power by blocking  
10 applications that may turn into competitive threats.

11 148. In the absence of these unlawful restraints, app developers could direct users to  
12 competing app distributors, including those offering lower prices and that may be curated to specific  
13 consumers’ interests—*e.g.*, an app store that specializes in games. Without Google’s unlawful  
14 restraints, app developers could give users an opportunity to use other app stores providing  
15 additional platforms on which more apps could be featured, and thereby, discovered by consumers.

16 149. Second, Google conditions app developers’ ability to effectively advertise their apps  
17 to Android users on being listed in the Google Play Store. Specifically, Google markets an App  
18 Campaigns program that, as Google says, allows app developers to “get your app into the hands of  
19 more paying users” by “streamlin[ing] the process for you, making it easy to promote your apps  
20 across Google’s largest properties.” This includes certain ad placements on Google Search,  
21 YouTube, Discover on Google Search, and the Google Display Network, and with Google’s “search  
22 partners,” which are specially optimized for the advertising of mobile apps. However, to access the  
23 App Campaigns program, Google requires that Android app developers list their app in the Google  
24 Play Store. This conduct further entrenches Google’s monopoly in the Android Application  
25 Distribution Market by coercing Android app developers to list their apps in the Google Play Store  
26 or risk losing access to a great many Android users they could otherwise advertise to, including  
27 through Google’s search engine, but for Google’s restrictions.

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1       150. But for Google’s anticompetitive acts, Android users could freely download apps,  
2 without the technological and practical hurdles placed by Google, from developers’ websites, rather  
3 than through an app store, just as they might do on a personal computer. There is no reason that  
4 downloading and installing an app, or making in-app purchases, on a mobile device should be  
5 different. Millions of personal computer users easily and safely download and install software  
6 directly every day, such as Google’s own Chrome browser or Adobe’s Acrobat Reader.

7           **C. Google’s Imposition of Unnecessary Technical Barriers Further Foreclosing  
8           Competition in the Android Application Distribution Market**

9       151. Google does not stop at anticompetitive contractual arrangements with OEMs and  
10 developers. Google goes a step further and erects unnecessary pretextual technical barriers to  
11 interfere with the distribution of Android app stores and apps, and consequently, in-app purchases,  
12 directly to users outside of the Google Play Store, and to restrict a user’s ability to update any apps  
13 that the user may install after successfully navigating Google’s technical barriers.

14       152. First, Google restricts, and in some cases, eliminates, a consumer’s ability to directly  
15 download apps and competing app stores. Direct downloading is entirely prevented on Android  
16 devices that are part of Google’s so-called Advanced Protection Program (“APP”). Consumers who  
17 enroll in APP cannot directly download apps; their Android device can only download apps  
18 distributed in the Google Play Store or in another pre-installed app store that Google pre-approved  
19 an OEM to offer on its devices. App developers therefore cannot reach APP users unless they first  
20 agree to distribute their apps through the Google Play Store or through a separate Google-approved,  
21 OEM-offered app store, where available.

22       153. And while downloading by consumers of competing Android app stores directly to  
23 consumers is nominally available for those that have not enrolled in APP, the same restrictions  
24 Google imposes on the direct downloading of apps apply to the direct downloading of app stores.  
25 Indeed, Google Play Protect, a default program that Google has created to periodically scan Android  
26 devices and delete or disable potentially harmful apps, has flagged at least one competing Android  
27 app store, Aptoide, as “harmful,” further hindering consumers’ ability to access a competing app  
28 store.

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1       154. Under the guise of security concerns, Google has taken steps to actively dissuade or  
2 altogether prevent users from downloading apps outside the Google Play Store. For instance,  
3 Google has implemented a more “opinionated design” that dissuades users from installing apps  
4 outside of the Google Play Store by “increasing the cognitive load for proceeding.” Google added  
5 a “red icon with an exclamation mark” and moved the option to proceed to a less prevalent location.

6       155. But the vast majority of users don’t even get to these warnings. Google has  
7 programmed Android to contain default settings that completely block downloading. According to  
8 Google’s internal documents, a full 68% of devices worldwide maintain the default setting  
9 preventing downloading from “unknown sources.” For these devices, no apps or app stores can be  
10 installed outside of the Google Play Store.

11       156. And even for those devices whose users have changed the default setting, Google  
12 has intentionally created “much more friction” for installing apps from what it deemed “unknown  
13 sources” outside of the Google Play Store. Google has required multiple steps for users to change  
14 settings and provide consent each time a user wants to sideload such an app from a so-called  
15 “unknown source” or use such an app pre-installed by OEMs. Google does this even though users  
16 are well aware of the sources of the apps.

17       157. Even when a user has been able to successfully navigate Google’s thicket of  
18 technical barriers and download or sideload an app, Google denies the app the permissions  
19 necessary to be seamlessly updated in the background—a benefit reserved solely for apps  
20 downloaded via Google Play Store. Instead, users must manually trigger updates, which may even  
21 require revisiting the original download process, complete with its hurdles and warnings. This  
22 imposes onerous obstacles on consumers who wish to keep the most current version of an app on  
23 their mobile device and further drives consumers away from direct downloading or sideloading and  
24 toward the Google Play Store. For instance, Amazon’s website explains that updating an app on  
25 Amazon’s Android app store requires a user to follow a multi-step process: “1. Open the app store  
26 you used to install the app on your device. 2. Search for the app and open the app’s detail page. 3.  
27 If an update is available, an Update option displays.” By making the app update process difficult,  
28 Google further discourages users from seeking out rival app stores and the apps offered therein.

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1       158. There is no legitimate reason for Google’s overly restrictive technical barriers. To  
2 the extent that Google claims it is concerned about security, much of what it does amounts to  
3 security theatre. Google internal documents explain that tagging an app as “unknown” [REDACTED]

4 [REDACTED] Google admits that its security team is  
5 not really concerned about installations that take place outside of the Google Play Store because  
6 they have not been “proven a big risk.” [REDACTED]  
7 [REDACTED]  
8 [REDACTED] Thus, Google recognizes that “app stores  
9 generally have relatively low malware install rates”—*i.e.*, the rate by which malware accesses a  
10 device through an app installed from that app store—[REDACTED]  
11 [REDACTED]

12       159. Indeed, Google used its technical barriers to ensure that Amazon was never able to  
13 distribute its app store on enough devices to be a legitimate competitive threat. As early as 2011,  
14 Google recognized that requiring users go through the “install friction” of a 7-click unknown  
15 sources process to install Amazon’s app store limited Amazon’s installed base and made it unlikely  
16 that Amazon would succeed at mobile-device content distribution. By 2016, Google had increased  
17 the unknown sources install friction to 9 steps and added at least two security scare warnings into  
18 the process.

19       160. In 2017, Google also discussed additional ways to keep users and developers on the  
20 Google Play Store and off of Amazon’s app stores, including by “[d]isabl[ing] profile porting (via  
21 policy)” and by “create[ing] more third party [install] friction”, which it referred to as “speed bump  
22 type hurdles.” That same year, Amazon asked Google to whitelist its apps and app store so that  
23 users did not have to go through the “unknown sources” friction. In connection with this request,  
24 Amazon offered to share documentation of its security and approval processes of third-party apps  
25 to ensure they would be compliant. Despite the additional security assurances, Google still refused  
26 Amazon’s request. Google had no legitimate reason to refuse Amazon’s request. Rather, consistent  
27 with its view that “unknown source” friction kept users and developers on the Google Play Store,  
28 Google used its technical barriers to suppress competition from Amazon.

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1       161. Even if Google had a legitimate reason for implementing its technical barriers, it has  
2 not adopted the least restrictive means for achieving it. For decades, PC users have installed  
3 software acquired from various sources without being deterred by anything like the obstacles  
4 erected by Google. A PC user can navigate to an internet webpage, click to download and install an  
5 application, and be up and running, often in a matter of minutes. Security screening is conducted  
6 by a neutral security software operating in the background, allowing users to download software  
7 from any source they choose (unlike Android). Any claimed security benefits resulting from  
8 Google's Advanced Protection Program, Google Play Protect, Google's imposition of multiple  
9 layers of warnings and consents, or Google's restriction on automatic updates can be achieved  
10 through less restrictive means, allowing for alternative application distribution mechanisms while  
11 still protecting users from malware and other security issues.

12       162. Google's invocation of security is an excuse to further foreclose and limit the apps  
13 available to Android users, as shown by a comparison to personal computers, where users can  
14 securely purchase and download new software without being limited to a single software store  
15 owned or approved by the user's anti-virus software vendor. This comparison shows that Google's  
16 multiple technical barriers to direct downloading and sideloading from alternative sources go far  
17 beyond what is necessary to achieve any legitimate security objectives. Put differently, Google has  
18 not adopted the least restrictive means necessary for achieving any legitimate security objectives.

19       163. Thus, downloading outside of the Google Play Store has not been a broadly and  
20 commercially viable way for non-Google Play Store app stores to reach Android users, any more  
21 than they are a viable alternative for single apps.

22       164. But for Google's restrictions on direct downloading, app distributors and developers  
23 could more easily distribute their stores and apps directly to consumers. As explained above, Google  
24 makes direct downloading substantially and unnecessarily difficult, and in some cases prevents it  
25 entirely, further narrowing this already narrow alternative distribution channel.

26           **D. Anticompetitive Effects in the Android Application Distribution Market**

27       165. Through its anticompetitive acts, including contractual provisions and exclusionary  
28 technical obstacles, Google has willfully obtained a near-absolute monopoly over the Android

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1 Application Distribution Market. Google Play Store downloads have accounted for more than 90%  
2 of downloads through Android app stores, dwarfing other available distribution channels.

3 166. Google's anticompetitive conduct has substantially foreclosed competition in the  
4 Android Application Distribution Market, affected a substantial volume of commerce in this  
5 market, and caused anticompetitive harms to consumers.

6 167. As described above, Google's anticompetitive conduct forces OEMs to dedicate  
7 valuable "home screen" real estate to the Google Play Store and other mandatory Google  
8 applications, regardless of the OEM's preferences, which might include allowing other app stores  
9 or developers to place an icon there. Individually and together, these requirements limit OEMs'  
10 ability to differentiate themselves and compete by offering innovative and more appealing (in terms  
11 of price and quality) distribution platforms for apps. Google's restrictions also interfere with OEMs'  
12 ability to compete with each other by offering Android mobile devices with tailored combinations  
13 of pre-installed apps that would appeal to particular subsets of mobile device consumers.

14 168. Google's anticompetitive conduct harms consumers because would-be competitor  
15 app distributors – including well-resourced potential competitors such as Amazon – are  
16 substantially foreclosed from the market. As a result, consumers pay higher than competitive prices  
17 for their applications

18 169. Consumers are harmed by Google's supra-competitive taxes of up to 30% on the  
19 purchase price of apps and in-app purchases distributed directly or indirectly through the Google  
20 Play Store, which is a much higher transaction fee than would exist in a competitive market  
21 unimpaired by Google's anticompetitive conduct. Google also prevents developers from charging  
22 less than \$.99 for non-zero priced applications. Google's supra-competitive tax raises prices for  
23 consumers and reduces the output of mobile apps and related content.

24 170. Consumers are also harmed by the depressed innovation resulting from Google's  
25 conduct. Absent Google's conduct, the market would see more innovation in apps and new models  
26 of app distribution alike.

27 171. Google's anticompetitive conduct also harms app developers, who must agree to  
28 Google's anticompetitive terms and conditions if they want access to Google's monopolized

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1 Android app markets and the large number of Android users captured therein. Google's restrictions  
2 prevent developers from experimenting with alternative app distribution models, such as providing  
3 apps directly to consumers, selling apps through curated app stores, creating their own competing  
4 app stores, or forming business relationships with OEMs who can pre-install apps. By restricting  
5 developers, Google ensures that the developers' apps will be distributed through the Google Play  
6 Store and Google Play Billing, which empowers Google to monitor the apps' usage. By depriving  
7 app developers of a market price for their apps, the tax reduces developers' incentive and capital to  
8 develop new apps and content and harms consumers. This, too, harms consumers, reducing output  
9 and depriving them of the opportunity to obtain such apps.

10 172. Consumers are further harmed because Google's control of app distribution reduces  
11 developers' ability and incentive to distribute apps in different and innovative ways—for example,  
12 through genre-specific app stores. Google, by restraining the distribution market and eliminating  
13 the ability and incentive for competing app stores, also limits consumers' ability to discover new  
14 apps of interest to them. More competing app stores would permit additional platforms to feature  
15 diverse collections of apps. Instead, consumers are left to sift through millions of apps in one  
16 monopolized app store, where Google controls which apps are featured, identified, or prioritized in  
17 user searches.

18 **IV. GOOGLE UNLAWFULLY MAINTAINS A MONOPOLY IN THE IN-APP  
19 AFTERMARKET**

20 173. App developers can monetize their apps by selling digital content within a mobile  
21 app. Many apps make additional content available for in-app purchasing on an à la carte basis or  
22 via a subscription-based service. App developers who sell digital content rely on in-app payment  
23 processing or billing tools to process consumers' purchases in a seamless and efficient manner.

24 174. Not only does Google control the market for the initial distribution of apps, but it  
25 leverages this control to monopolize the In-App Aftermarket, thereby dominating the distribution  
26 of aftermarket accessories or enhancements of those apps, including renewals of the apps in the  
27 case of subscriptions. To distribute those in-app products, a developer must have a distribution  
28

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1 channel that permits users to add those aftermarket items, and a payments system that allows it to  
2 transact those sales.

3       175. Through its anticompetitive restrictions, Google provides developers with no choice  
4 but to use Google Play and Google Play Billing for all in-app transactions—sales of app accessories,  
5 enhancements, and upgrades those developers make after the initial download. Google deprives  
6 developers of this choice in order to charge an anticompetitive toll—up to 30%—forever. And  
7 Google enforces its toll through two primary restrictions: (1) tying the use of its payments system,  
8 Google Play Billing, to all in-app purchases; and (2) prohibiting app developers from advertising,  
9 linking to, or otherwise steering users to any outside distribution channels.

10      **A.     Google’s Anticompetitive Conduct in the In-App Aftermarket**

11       176. Google’s anticompetitive conduct targeting the In-App Aftermarket has foreclosed  
12 developers’ ability to distribute their in-app products through alternative channels, including  
13 directly to their customers, and, in so doing, has foreclosed the use of competitive payment systems  
14 to transact in-app purchases.

15       177. Google’s “forever 30% in-app purchase revenue share” is enforced in two primary  
16 ways: *first*, by contractually prohibiting developers from distributing to their existing customers  
17 outside of Google Play, either by (1) using customer information to contact them directly (DDA,  
18 Section 4.9) or (2) steering those customers *within their own apps* to another store or to the  
19 developers’ own website (DDA, Section 4.5); and *second*, by imposing a tie-in of the payment  
20 system, Google Play Billing, allowing Google to better enforce its anticompetitive restrictions.

21       178. The former constitutes exclusive dealing, requiring developers to use Google Play  
22 forever, and the latter constitutes an illegal tie-in, depriving developers of the ability to utilize any  
23 one of the multitudes of electronic payments systems available, or that could be available if  
24 Google’s restrictions were not in place, and foreclosing competition from rival payment systems.

25       179. For apps distributed through the Google Play Store, Google requires use of Google  
26 Play Billing to process in-app purchases of digital content and for all in-app purchases. Google  
27 unlawfully ties its Google Play Store to Google Play Billing through provisions of Google’s DDA  
28 imposed on all developers seeking access to Android users. Section 3.2 of the DDA requires that

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1 Android app developers enter into a separate agreement with Google's payment processor, Google  
2 Payment, to receive payment for and from apps and in-app digital content.

3 180. Further, Section 4.1 of the DDA makes compliance with Google's Developer  
4 Program Policies mandatory, and those Policies require in relevant part that app developers (1)  
5 offering products within an app downloaded through the Google Play Store, (2) providing access  
6 to app content, or (3) offering products within another category of app downloaded through the  
7 Google Play Store must use Google Play Billing as the method of payment, except when the  
8 payment is for physical products or digital content that may be consumed outside of the app itself  
9 (e.g., songs that can be played on other music players).

10 181. Google's unlawful restraints in the DDA prevent app developers from integrating  
11 alternative, even multiple, payment processing solutions into their mobile apps, depriving app  
12 developers and consumers alike of a choice of competing payment processors. This, in turn, stifles  
13 the development of efficient alternative application delivery stores for in-app purchases. Since  
14 developers are required to use Google's payment processing system, alternative distribution  
15 mechanisms cannot compete by offering seamless and frictionless sales of in-app purchases through  
16 alternative payment systems at lower prices.

17 182. Furthermore, because 90% or more of Android-compatible mobile app downloads  
18 through an app store are conducted in the Google Play Store, tying Google Play Billing to Google  
19 Play Store substantially forecloses the In-App Aftermarket to competitive payment systems.

20 183. Absent Google's unlawful conduct, app developers could integrate compatible  
21 payments systems into their apps to facilitate in-app digital content purchases or develop such  
22 functionality themselves. Developers could restrict the number of payment options, choosing to  
23 minimize costs by offering only PayPal as an option, for example. Or, developers could choose to  
24 offer a wide range of payment options, either through their own infrastructure or through a third-  
25 party payment processing provider. More importantly, without Google's requirement that  
26 developers use Google Play Billing, developers could offer an efficient alternative to Google for  
27 the distribution and frictionless payment of in-app purchases. This would, in turn, result in lower  
28 prices for consumers and reduce developers' costs for receiving payment.

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1       184. Payment systems to transact in-app purchases are separate products for which there  
2 is separate demand. For example, the crux of developer Epic's claims in the related case is based  
3 on Epic's attempt to provide a choice of payment systems to consumers within the apps Epic  
4 develops. Epic claims that this choice would have resulted in consumers paying less for in-app  
5 products purchased within the Epic app. However, consumers never got that opportunity because  
6 Google removed Epic's apps from the Google Play Store upon discovery of Epic providing this  
7 alternative product for consumer consumption.

8       185. In addition, Epic's search for payment processing demonstrates payment processing  
9 as a separate product with a separate demand. Epic actively sought bids to provide payment  
10 processing services within its app store from various providers. Epic was approached by Coda  
11 Payments in March 2020 to provide billing services through its Codashop system, which is widely  
12 used in Asia. The ability to choose a non-Google payments system for in-app transactions could  
13 save a developer, and hence consumers, tens of millions of dollars. Indeed, Coda quoted to Epic a  
14 non-territory specific all-in fee of 7-10%, far below the 30% demanded by Google Play Billing.  
15 Today, the Epic Games Store provides developers with a choice of using the developers own  
16 payment processor, or Epic's payment system, Epic Direct Payment.

17       186. And alternate payment systems can be just as seamless as Google's. For example,  
18 Codashop's payments system ensures that users do not have to register or log-in when purchasing  
19 digital, in-app goods or services. Absent Google's tie of Google Play Billing for all aftermarket  
20 transactions, developers would be able to use Codashop or some other much less costly payments  
21 system.

22       187. Similarly, Netflix, Spotify, and Tinder, some of the nation's largest and most  
23 popular subscription services, have repeatedly sought to bypass Google Play Billing. In particular,

24 [REDACTED]

25 [REDACTED]

26 [REDACTED]

27 [REDACTED]

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1       188. In short, competitive payment systems could be offered, absent Google's  
2 restrictions, to developers for the same resulting benefits and transactions. Potential competitors  
3 include Stripe, PayPal, Square, and Codashop, among others.

4       189. Google has no legitimate justifications for its exclusionary conduct and tie-in. Tying  
5 Google Play Store to in-app payment systems is not technologically or commercially necessary. If  
6 Google were concerned, for example, about the security of its users' payment information, then it  
7 would not permit alternative payment processing for certain transactions made on Android  
8 smartphones and tablets for physical products or digital content consumed outside an app. But  
9 Google does allow alternative payment processing tools in that context, with no diminution in  
10 security. Likewise, absent the restrictions, Google would continue to invest in the Google Play  
11 Store. Google's core business is search, and wide adoption of the Android ecosystem, including the  
12 Play Store, are critical to its continued success. Google also earns billions of dollars through targeted  
13 and other digital advertising – dollars that would be at stake were Google to discontinue investing  
14 in the Google Play Store.

15       190. In addition to tying Google Play Billing to aftermarket in-app transactions, as  
16 discussed above, Google uses Sections 4.5 and 4.9 of the DDA to impose restraints prohibiting app  
17 developers from steering to distribution channels outside of the Google Play Store. These  
18 restrictions reinforce Google's tie in of aftermarket distribution, including Google Play Billing, and,  
19 separately, constitute exclusive dealing. Google's restrictions ensure that once a developer acquires  
20 a customer through the Google Play Store, it must use the Play Store for all subsequent sales to that  
21 customer. Developers are even prohibited from using their own customer information to efficiently  
22 communicate with those customers directly, through their applications. It has thus effectively  
23 foreclosed developers from efficiently providing information to consumers about lower cost  
24 channels.

25       191. These anti-steering, tying, and exclusive dealing provisions hinder the development  
26 of truly competitive application delivery stores, which could also be used to facilitate and process  
27 in-app transactions.

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1           **B. Google's Monopoly Power in the In-App Aftermarket**

2       192. Google has monopoly power in the In-App Aftermarket, evidenced through its  
3 ability to exclude competition through its contractual restraints and to impose prices that far exceed  
4 competitive levels.

5       193. Indeed, Google's charge of a usual 30% commission for Google Play Billing reflects  
6 Google's monopoly power, which allows it to charge supra-competitive prices for payment  
7 processing. For example, the 30% commission is far higher than the [REDACTED] revenue share that Google  
8 itself has calculated as its break-even level. Google's commission also greatly exceeds the cost of  
9 alternative electronic payment processing tools, which can be one-tenth of the 30% cost of Google  
10 Play Billing.

11      194. Google's internal documents recognize that [REDACTED]  
12 [REDACTED]  
13 [REDACTED]

14      195. In fact, internally, Google freely admits that its "rev share @ 30%" has [REDACTED]  
15 [REDACTED]

16       196. Google's market power is durable. Through the conduct described above, Google  
17 has erected barriers to entry to any would-be competitor in the aftermarket for in-app transactions  
18 and ensured its unfettered continued exercise of monopoly power.

19           **C. Anticompetitive Effects in the In-App Aftermarket**

20       197. Google's conduct harms competition in the In-App Aftermarket, substantially  
21 foreclosing the ability of competitive distribution and payment systems from offering their services  
22 to the vast majority of developers, since almost all developers distribute through the Google Play  
23 Store.

24       198. Absent Google's anticompetitive restrictions, developers could compete in the In-  
25 App Aftermarket themselves, or partner with third-party distribution and payment systems. Those  
26 systems might provide a better or more customized service than Google's and, in a competitive  
27 world, would do so at vastly lower prices.

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1       199. Google's conduct, in turn, injures consumers, who pay more for their in-app  
2 purchases.

3       200. Google's conduct also harms consumers because would-be competitor in-app  
4 payment processors are not free to innovate and offer Android mobile device consumers alternative  
5 payment processing tools with better functionality, lower prices, tighter security, and the protection  
6 of user data, including purchase history. Absent Google's Developer Program Policies, for example,  
7 developers could offer consumers a choice of in-app payment processors for each purchase made  
8 by the consumer, including payment processors at a lower cost and with better customer service.

9       201. In addition, Google's conduct prevents app developers from providing users  
10 comprehensive customer service relating to in-app payments without Google's involvement.  
11 Google has little incentive to compete through improved customer service because it faces no  
12 competition.

13       202. Google does, however, have an incentive to obtain information concerning  
14 developers' transactions with their customers, which Google can use to give its ads and search  
15 businesses an anticompetitive edge. This is true regardless of whether the developer or the app's  
16 users would prefer not to share their information with Google. In these ways and others, Google  
17 directly harms users.

18       203. Google has also raised consumers' prices (and reduced developers' revenue)  
19 through its supra-competitive up to 30% tax on in-app purchases, a toll it could not maintain in a  
20 competitive in-app distribution and payment systems market. The resulting increase in prices for  
21 in-app content has likely deterred some consumers from making purchases. The supra-competitive  
22 tax rate also reduces developers' incentive to invest in and create additional apps and related in-app  
23 content for consumers.

24 **V. ANTITRUST INJURY**

25       204. Plaintiffs and Class Members have suffered antitrust injury as a direct result of  
26 Google's unlawful conduct. Google Play Store commissions and fees generated more than \$21.5  
27 billion in revenue for Google in 2018. If Google had operated the Google Play Store in a competitive  
28 market, free of Google's anticompetitive restraints, then the fees and commissions that Google

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1 could have collected from developers would have been far lower, and as a result Plaintiffs and Class  
2 Members would have paid significantly less for the applications and in-app purchases they made.

3 205. By impairing competition in the Android Application Distribution Market, Google's  
4 unlawful conduct has enabled it to charge supra-competitive prices for Android apps and in-app  
5 purchases.

6 206. In addition, by impairing competition in the In-App Aftermarket, Google's unlawful  
7 conduct has enabled it to charge supra-competitive prices for in-app digital content.

8 207. Plaintiffs and the Class are the direct purchasers of Android apps and make in-app  
9 purchases directly from Google. When Plaintiffs and the Class purchased Android apps, they did  
10 so directly from Google and paid Google directly through Google Play Billing, using their credit  
11 card or other payment sources. When Plaintiffs and the Class purchased in-app digital content, they  
12 did so through the Google Play Store, using the pre-established payment streams set up when  
13 purchasing that app or other apps using Google Play Billing. When Plaintiffs and the Class made  
14 app and in-app purchases, they paid Google directly.

15 208. In addition to harming consumers, Google's conduct has harmed developers.  
16 Developers face restrictions inhibiting innovation and even more widespread distribution. Absent  
17 Google's conduct, developers would be free to add features to their applications without Google's  
18 stamp of approval, and would have alternative means to reach consumers, including through easily  
19 accessible specialized app stores that would enable them to better target those consumers who might  
20 have an interest in their applications. In short, Google's conduct harms competition on all sides of  
21 its platform.

## 22 VI. CLASS ALLEGATIONS

23 209. Plaintiffs bring this action for themselves and as a class action under Rules 23(a),  
24 23(b)(2), and 23(b)(3) of the Federal Rules of Civil Procedure on behalf of the following classes  
25 (the "Class"):

### 26 THE NATIONWIDE CLASS:

27 All persons in the United States who paid for an app through the Google Play  
28 Store, or paid for in-app digital content (including subscriptions and/or ad free

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1           **versions) on an app that was offered in the Google Play Store from August 16,  
2           2016, to the present (the “Class Period”).**

3           **Plaintiffs and the Nationwide Class are claiming damages and seeking  
4           injunctive relief for violations of Sections 1 and 2 of the Sherman Act and for  
5           violations of the Cartwright Act and the UCL during the Class Period.**

6           **THE REPEALER-STATE CLASS:**

7           **All persons in those states whose laws permit indirect purchaser standing and  
8           provide for antitrust recovery to indirect purchasers, who paid for an app  
9           through the Google Play Store, or paid for in-app digital content (including  
10          subscriptions and/or ad free versions) on an app that was offered in the Google  
11          Play Store from August 16, 2016, to the present (the “Class Period”).**

12          **Plaintiffs and the Repeater-State Class are claiming damages and seeking  
13          injunctive relief for violations of the Cartwright Act during the Class Period.**

14          210. Specifically excluded from each Class are Defendants; the officers, directors, or  
15          employees of any Defendant; any entity in which any Defendant has a controlling interest; any  
16          affiliate, legal representative, heir, or assign of any Defendant and any person acting on their behalf.  
17          Also excluded from the Class are any judicial officer presiding over this action and the members of  
18          his/her immediate family and judicial staff, all State agencies; and any juror assigned to this action.

19          211. Each Class is readily ascertainable and the records for the Class should exist,  
20          including, specifically, within Defendants' own records and transaction data.

21          212. Due to the nature of the trade and commerce involved, there are tens of millions of  
22          geographically dispersed members in the Class, the exact number and their identities being known  
23          to Defendants.

24          213. Plaintiffs' claims are typical of the claims of the members of each Class. Plaintiffs  
25          and Class Members sustained damages arising out of Defendants' common course of conduct in  
26          violation of the laws alleged herein. The damages and injuries of each member of the Class were  
27          directly caused by Defendants' wrongful conduct.

28          214. There are questions of law and fact common to the Class, and those questions  
predominate over any questions affecting only individual Class Members. These common questions  
of law and fact include, but are not limited to:

- whether Google has monopoly power in the Android Application Distribution  
Market;

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- 1     • whether Google has monopoly power in the In-App Aftermarket;
- 2     • whether Google's contractual restrictions on OEMs, Mobile Network Carriers
- 3         and developers further Google's monopolization of the Android Application
- 4         Distribution Market;
- 5     • whether Google's contractual restrictions on OEMs, Mobile Network Carriers
- 6         and developers are unreasonable restraints of trade;
- 7     • whether Google's tie of Google Play Billing to distribution through its Google
- 8         Play Store furthered Google's monopolization of the In-App Aftermarket;
- 9     • whether Google's contractual restrictions limiting payment for in-app digital
- 10         content to Google Play Billing are unreasonable restraints of trade;
- 11     • whether Google's contractual restrictions requiring developers to exclusively
- 12         use Google Play for all aftermarket in-app sales are unreasonable restraints of
- 13         trade;
- 14     • whether Google's imposition of unnecessary and overly broad technical
- 15         barriers are unreasonable restraints of trade;
- 16     • whether Google's conduct resulted in supra-competitive prices paid by
- 17         consumers of Android apps and for in-app purchases of Android apps;
- 18     • whether Google's conduct has harmed all participants in the market, including
- 19         developers and consumers;
- 20     • whether Google's violations of the Sherman Act and the Cartwright Act
- 21         constitute an unlawful business act or practice within the meaning of the UCL;
- 22     • whether Google's violations of the Sherman Act and the Cartwright Act
- 23         constitute an unlawful business act or practice within the meaning of the UCL;
- 24     • whether Google's conduct constitutes an unfair business act or practice within
- 25         the meaning of the UCL;
- 26     • whether Google's conduct constitutes a fraudulent practice within the meaning
- 27         of the UCL;
- 28     • the appropriate Class-wide measures of damages and restitution; and

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- whether the Class is entitled to the injunctive relief sought on behalf of the Class and/or to protect the public from Google's anticompetitive acts and other misconduct alleged herein.

215. A class action is superior to other available methods for the fair and efficient adjudication of this controversy. The prosecution of separate actions by individual Class Members would impose heavy burdens on the courts and Defendants and would create a risk of inconsistent or varying adjudications of the questions of law and fact common to the Class. A class action, on the other hand, would achieve substantial economies of time, effort, and expense and would assure uniformity of decision as to persons similarly situated without sacrificing procedural fairness or bringing about other undesirable results. Absent a class action, it would not be feasible for the vast majority of the Class Members to seek redress for the violations of law alleged herein.

## CLAIMS

## A. Claims for a Nationwide Class

216. Plaintiffs, as direct purchasers under *Apple v. Pepper*, allege violations of the federal antitrust laws as set forth below.

**COUNT 1: Sherman Act § 2 Unlawful Monopolization in the Android Application Distribution Market**

**(Against all Defendants except Google Payment)**

217. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set forth in the rest of this Complaint as if fully set forth herein.

218. Google's conduct violates Section 2 of the Sherman Act, which prohibits the "monopoliz[ation of] any part of the trade or commerce among the several States, or with foreign nations." 15 U.S.C. § 2.

219. The Android Application Distribution Market is a valid antitrust market.

220. Google holds monopoly power in the Android Application Distribution Market.

221. Google has unlawfully maintained monopoly power in the Android Application Distribution Market through the anticompetitive acts described herein, including, but not limited to: (1) leveraging its Android OS and Google suite of products to impose anticompetitive contractual restrictions in its agreements with OEMs and app developers; (2) conditioning licensing

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of the Google Play Store, as well as other essential Google services and the Android trademark, on OEMs' agreement give the Google Play Store preferential placement and treatment; (3) imposing technical restrictions and obstacles on both OEMs and developers that prevent the distribution of Android apps through means other than the Google Play Store; and (4) conditioning app developers' ability to effectively advertise their apps to Android users on being listed in the Google Play Store.

222. Google's conduct affects a substantial volume of interstate as well as foreign commerce.

223. Google's conduct has substantial anticompetitive effects, including increased prices to consumers and costs to developers, reduced innovation and quality of service, and lowered output to consumers.

224. Google's conduct lacks procompetitive justifications. Alternatively, to the extent that any legitimate justifications exist, they are far outweighed by the anticompetitive effects of Google's conduct and could have been achieved through less restrictive alternatives.

225. Plaintiffs and the Class were harmed by Defendants' anticompetitive conduct in a manner that the antitrust laws were intended to prevent. They paid more for Android apps and in-app purchases than they would have paid in a competitive market. Plaintiffs and the Class were also injured because Google's unlawful monopolization of the Android apps and in-app purchases extinguished Plaintiffs' and the Class's freedom to choose between the Google Play Store and lower-cost market alternatives that would have been available had Google not monopolized the market. Additionally, Plaintiffs and the Class were injured because Google's establishment and maintenance of monopoly pricing has caused a reduction in the output and supply of Android apps and in-app purchases, which would have been more abundantly available in a competitive market.

226. Plaintiffs and the Class have suffered and continue to suffer damages and irreparable injury, and such damages and injury will not abate until an injunction issues ending Google's anticompetitive conduct.

**COUNT 2: Sherman Act § 1 Unreasonable Restraints of Trade Concerning the Android Application Distribution Market: OEMs**  
**(Against all Defendants except Google Payment)**

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1       227. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set  
2 forth in the rest of this Complaint as if fully set forth herein.

3       228. Defendants' conduct violates Section 1 of the Sherman Act, which prohibits  
4 "[e]very contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade  
5 or commerce among the several States, or with foreign nations." 15 U.S.C. § 1.

6       229. Google entered into agreements with OEMs that unreasonably restrict competition  
7 in the Android Application Distribution Market. These include, but are not limited to, anti-forking  
8 agreements and MADAs with OEMs that condition their access to the Google Play Store and other  
9 "must have" Google services on the OEM offering the Google Play Store as the primary (and often  
10 the only) viable app store on Android mobile devices.

11       230. These agreements serve no legitimate or procompetitive purpose that could justify  
12 their anticompetitive effects, and thus unreasonably restrain competition in the Android Application  
13 Distribution Market. Alternatively, to the extent that any legitimate justifications exist, they are far  
14 outweighed by the anticompetitive effects of Google's conduct and could have been achieved  
15 through less restrictive alternatives.

16       231. Google's conduct affects a substantial volume of interstate as well as foreign  
17 commerce.

18       232. Google's conduct has substantial anticompetitive effects, including increased prices  
19 to consumers and costs to developers, reduced innovation and quality of service, and lowered  
20 output.

21       233. Plaintiffs and the Class were harmed by Defendants' anticompetitive conduct in a  
22 manner that the antitrust laws were intended to prevent. They paid more for Android apps and in-  
23 app purchases than they would have paid in a competitive market. Plaintiffs and the Class were also  
24 injured because Google's unlawful restraints of trade extinguished Plaintiffs' and the Class's  
25 freedom to choose between the Google Play Store and lower-cost market alternatives that would  
26 have been available had Google not restrained competition. Plaintiffs and the Class were further  
27 injured because Google's establishment and maintenance of supra-competitive pricing has caused  
28

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1 a reduction in the output and supply of Android apps and in-app purchases, which would have been  
2 more abundantly available in a competitive market.

3 234. Plaintiffs and the Class have suffered and will continue to suffer damages and  
4 irreparable injury, and such damages and injury will not abate until an injunction issues ending  
5 Google's anticompetitive conduct.

6 **COUNT 3: Sherman Act § 1 Unreasonable Restraints of Trade Concerning  
the Android Application Distribution Market: Developer Distribution Agreements  
(Against all Defendants except Google Payment)**

7 235. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set  
8 forth in the rest of this Complaint as if fully set forth herein.

9 236. Defendants' conduct violates Section 1 of the Sherman Act, which prohibits  
10 "[e]very contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade  
11 or commerce among the several States, or with foreign nations." 15 U.S.C. § 1.

12 237. Google forces app developers to enter its standardized Developer Distribution  
13 Agreement, including Developer Program Policies integrated into that Agreement, as a condition  
14 of their apps being distributed through the Google Play Store. The relevant provisions of these  
15 agreements unreasonably restrain competition in the Android Application Distribution Market.

16 238. Section 4.5 of the Developer Distribution Agreement provides that developers "may  
17 not use Google Play to distribute or make available any Product that has a purpose that facilitates  
18 the distribution of software applications and games for use on Android devices outside of Google  
19 Play." Section 4.1 of the DDA requires that all developers "adhere" to Google's Developer Program  
20 Policies. Under the guise of its so-called "Malicious Behavior" Policy, Google prohibits developers  
21 from distributing apps that "download executable code [*i.e.*, code that would execute an app] from  
22 a source other than Google Play." The DDA further reserves to Google the right to remove and  
23 disable any Android app that it determines violates either the DDA or its Developer Program  
24 Policies and to terminate the app on these bases. (§§ 8.3, 10.3.) These provisions prevent app  
25 developers from offering competing app stores through the Google Play Store, even though there  
26 is no legitimate technological or other impediment to distributing a competing app store through  
27 the Google Play Store.  
28

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239. These agreements serve no legitimate or procompetitive purpose that could justify their anticompetitive effects, and thus unreasonably restrain competition in the Android Application Distribution Market. Alternatively, to the extent that any legitimate justifications exist, they are far outweighed by the anticompetitive effects of Google’s conduct and could have been achieved through less restrictive alternatives.

240. Google's conduct affects a substantial volume of interstate as well as foreign commerce.

241. Google's conduct has substantial anticompetitive effects, including increased prices to consumers and costs to developers, reduced innovation and quality of service, and lowered output.

242. Plaintiffs and the Class were harmed by Defendants' anticompetitive conduct in a manner that the antitrust laws were intended to prevent. They paid more for Android apps and in-app purchases than they would have paid in a competitive market. Plaintiffs and the Class were also injured because Google's unlawful restraints of trade extinguished Plaintiffs' and the Class's freedom to choose between the Google Play Store and lower cost market alternatives that would have been available had Google not restrained competition. Plaintiffs and the Class were further injured because Google's establishment and maintenance of supra-competitive pricing has caused a reduction in the output and supply of Android apps and in-app products, which would have been more abundantly available in a competitive market.

243. Plaintiffs and the Class have suffered and continue to suffer damages and irreparable injury, and such damages and injury will not abate until an injunction issues ending Google's anticompetitive conduct.

**COUNT 4: Sherman Act § 2 Unlawful Monopolization in the In-App Aftermarket**  
**(Against all Defendants)**

244. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set forth in the rest of this Complaint as if fully set forth herein.

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1       245. Google's conduct violates Section 2 of the Sherman Act, which prohibits the  
2 "monopoliz[ation of] any part of the trade or commerce among the several States, or with foreign  
3 nations." 15 U.S.C. § 2.

4       246. The In-App Aftermarket is a valid antitrust market.

5       247. Google holds monopoly power in the In-App Aftermarket.

6       248. Google has unlawfully maintained its monopoly power in the In-App Aftermarket,  
7 including through the anticompetitive acts described herein. For apps distributed through the  
8 Google Play Store, Google in its DDA with app developers imposes multiple anticompetitive  
9 restrictions. First, it prohibits developers from distributing to their existing customers outside of  
10 Google Play, either by (1) using customer information to contact them directly or (2) steering those  
11 customers within the app to another store or to the developers' own website. Second, it imposes a  
12 tie in of the payment system, Google Play Billing, allowing Google to better enforce its  
13 anticompetitive restrictions.

14       249. The former constitutes exclusive dealing, requiring developers to use Google Play  
15 forever, and the latter constitutes an illegal tie in, depriving developers of the ability to utilize any  
16 one of the multitudes of electronic payments systems available, or that could be available if  
17 Google's restrictions were not in place, and foreclosing competition from rival payment systems.

18       250. Google's conduct affects a substantial volume of interstate as well as foreign  
19 commerce by completely foreclosing developers' ability to distribute their in-app products through  
20 alternative channels, including directly to their customers, and, in so doing, foreclosing competitive  
21 payment systems from competing to transact in-app purchases.

22       251. Google's conduct has substantial anticompetitive effects, including increased prices  
23 to consumers and costs to app developers, reduced innovation and quality of service, and lowered  
24 output.

25       252. Google's conduct lacks any legitimate, procompetitive justification. Alternatively,  
26 to the extent that any legitimate justifications exist, they are far outweighed by the anticompetitive  
27 effects of Google's conduct and could have been achieved through less restrictive alternatives.  
28

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1       253. Plaintiffs and the Class were harmed by Defendants' anticompetitive conduct in a  
2 manner that the antitrust laws were intended to prevent. They paid more for Android in-app  
3 purchases than they would have paid in a competitive market. Plaintiffs and the Class were also  
4 injured because Google's unlawful monopolization of the Android apps and in-app purchases has  
5 extinguished Plaintiffs' and the Class's freedom to choose between the Google Play Store and  
6 lower-cost market alternatives that would have been available had Google not monopolized the  
7 market. Plaintiffs and the Class were further injured because Google's establishment and  
8 maintenance of monopoly pricing has caused a reduction in the output and supply of Android apps  
9 and in-app purchases, which would have been more abundantly available in a competitive market.

10      254. Plaintiffs and the Class have suffered and continue to suffer damages and irreparable  
11 injury, and such damages and injury will not abate until an injunction issues ending Google's  
12 anticompetitive conduct.

**COUNT 5: Sherman Act § 1 Unreasonable Restraints of Trade Concerning the In-App  
Aftermarket  
(Against all Defendants)**

15      255. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set  
16 forth in the rest of this Complaint as if fully set forth herein.

17      256. Defendants' conduct violates Section 1 of the Sherman Act, which prohibits  
18 "[e]very contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade  
19 or commerce among the several States, or with foreign nations."

20      257. Google forces app developers to enter its standardized DDA, including Developer  
21 Program Policies integrated into that Agreement, as a condition of having their apps distributed  
22 through the Google Play Store. The relevant provisions of these agreements unreasonably restrain  
23 and substantially foreclose competition through exclusive dealing and tying arrangements in the  
24 Android In-App Aftermarket, as described above.

25      258. Sections 4.5 and 4.9 prohibit of the DDA prohibit developers who have used the  
26 Google Play Store once from ever going elsewhere to distribute their in-app products, and therefore  
27 constitute exclusive dealing in violation of Section 1 of the Sherman Act. Google's prohibitions on  
28 steering or using alternative mechanisms to distribute in-app products substantially forecloses

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1 competition—in fact, forecloses 100% of the In-App Aftermarket—because no other distribution  
2 avenue or app store can compete for those sales.

3       259. Google enforces its exclusive dealing arrangement through requiring the use of  
4 Google Play Billing to transact all aftermarket purchases. Section 3.2 of the DDA further requires  
5 that Android app developers enter into a separate agreement with Google’s payment processor,  
6 Google Play Billing, in order to receive payment for apps and content distributed through the  
7 Google Play Store. This includes payments related to in-app purchases of digital content. Further,  
8 compliance with Google’s Developer Program Policies, which § 4.1 of the DDA makes obligatory,  
9 requires that apps distributed through the Google Play Store “must use Google Play In-app Billing  
10 [offered by Google Payment] as the method of payment” for such in-app purchases. Google’s  
11 Policies exclude only certain, limited types of transactions from this requirement, such as the  
12 purchase of “physical products” or of “digital content that may be consumed outside of the app  
13 itself.”

14       260. The challenged provisions serve no sufficient legitimate or procompetitive purpose,  
15 substantially foreclose, and unreasonably restrain competition in the In-App Aftermarket.

16       261. Defendants’ conduct affects a substantial volume of interstate as well as foreign  
17 commerce.

18       262. Defendants’ conduct has substantial anticompetitive effects, including increased  
19 prices to consumers and costs to developers, reduced innovation and quality of service, and lowered  
20 output.

21       263. Plaintiffs and the Class were harmed by Defendants’ anticompetitive conduct in a  
22 manner that the antitrust laws were intended to prevent. They paid more for Android apps and in-  
23 app purchases than they would have paid in a competitive market. Plaintiffs and the Class were also  
24 injured because Google’s unlawful restraints of trade extinguished Plaintiffs’ and the Class’s  
25 freedom to choose between the Google Play Store and lower-cost market alternatives that would  
26 have been available had Google not restrained trade. Plaintiffs and the Class were further injured  
27 because Google’s establishment and maintenance of supra-competitive pricing has caused a  
28

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1 reduction in the output and supply of Android apps and in-app purchases, which would have been  
2 more abundantly available in a competitive market.

3 264. Plaintiffs and the Class have suffered and continue to suffer damages and irreparable  
4 injury, and such damages and injury will not abate until an injunction issues ending Google's  
5 anticompetitive conduct.

6 **COUNT 6: Sherman Act § 1 Tying In-App Distribution, Including Google Play Billing, to**  
**the Google Play Store**  
**(Against all Defendants)**

7 265. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set  
8 forth in the rest of this Complaint as if fully set forth herein.

9 266. Defendants' conduct violates Section 1 of the Sherman Act, which prohibits  
10 "[e]very contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade  
11 or commerce among the several States, or with foreign nations." 15 U.S.C. § 1.

12 267. Google has unlawfully tied its payment system, Google Play Billing, to the Google  
13 Play Store through its DDAs with app developers and its Developer Program Policies.

14 268. Google wields significant economic power in the tying market, the Android  
15 Application Distribution Market. With Google Play Store installed on nearly all Android OS  
16 devices and over 90% of downloads on Android OS devices being performed by the Google Play  
17 Store, Google has overwhelming market power. Google's market power is further evidenced by its  
18 ability to extract supra-competitive tax on the sale of apps and in-app purchases through the Google  
19 Play Store.

20 269. Google makes the Google Play Store available only to those app developers who  
21 agree to exclusively process all app-related payments (including in-app purchases) through Google  
22 Play Billing. This tie is especially powerful and effective because Google simultaneously forecloses  
23 a developer's ability to use alternative app distribution channels, as described above. Taken  
24 together, Google's conduct effectively forces developers to use Google Play Billing.

25 270. The tying product, the Google Play Store, is distinct from the tied product, the In-  
26 App Aftermarket, which includes the distribution of and payment systems for in-app products. App  
27 developers demand a choice of alternative distribution mechanisms for the distribution of in-app  
28

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1 products, and absent Google's tie in, such distribution mechanisms would be available. They  
2 include the developers' ability to distribute directly, through their websites or the creation of their  
3 own stores, such as the Epic Games Store, or through steering to third-party store, such as Amazon.  
4 But for Google's tie-in, app developers would also have alternative in-app payment system options  
5 and would prefer to choose among them. As described above, such payment systems currently exist  
6 and would be further developed absent Google's conduct. Google's unlawful tying arrangement  
7 thus ties separate products that are in separate markets.

8       271. Google's conduct substantially forecloses competition in the In-App Aftermarket,  
9 affecting a substantial volume of commerce in these markets.

10      272. Google has thus engaged in a *per se* illegal tying arrangement, and the Court does  
11 not need to engage in a detailed assessment of the anticompetitive effects of Google's conduct or  
12 its purported justifications.

13      273. In the alternative only, even if Google's conduct does not constitute a *per se* illegal  
14 tie, a detailed analysis of Google's tying arrangement would demonstrate that this arrangement  
15 violates the rule of reason, substantially foreclosing competition and resulting in competitive injury  
16 in the relevant market.

17      274. Plaintiffs and the Class were harmed by Defendants' anticompetitive conduct in a  
18 manner that the antitrust laws were intended to prevent. They paid more for Android apps and in-  
19 app purchases than they would have paid in a competitive market. Plaintiffs and the Class were also  
20 injured because Google's unlawful restraints of trade extinguished Plaintiffs' and the Class's  
21 freedom to choose between the Google Play Store and lower-cost market alternatives that would  
22 have been available had Google not engaged in a tying arrangement. Plaintiffs and the Class were  
23 further injured because Google's establishment and maintenance of supra-competitive pricing has  
24 caused a reduction in the output and supply of Android apps and in-app purchases, which would  
25 have been more abundantly available in a competitive market.

26      275. Plaintiffs and the Class have suffered and continue to suffer damages and irreparable  
27 injury, and such damages and injury will not abate until an injunction issues ending Google's  
28 anticompetitive conduct.

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1           **B. California Claims for a Nationwide Class and, in the Alternative, a Repealer  
2           State Class**

3           276. Plaintiffs allege a nationwide class for Defendants' violation of California law, as  
4           set forth in Counts 7-11. Google, LLC is a California Corporation with its principal place of  
5           business in California. Notably, Google, LLC's terms of service provides the following:

6           California law will govern all disputes arising out of or relating to these  
7           terms, service-specific additional terms, or any related services, regardless of  
8           conflict of laws rules.

9           The Google Play Store incorporates Google, LLC's terms of services.

10          277. In the alternative, Plaintiffs allege a Repealer State Class as set above for violations  
11         of California law as set forth in Counts 7-11.

12          **COUNT 7: California Cartwright Act Unreasonable Restraints of Trade in the  
13           Android Application Distribution Market: OEM Agreements**

14          **(Against all Defendants except Google Payment)**

15          278. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set  
16         forth in the rest of this Complaint as if fully set forth herein.

17          279. Google's acts and practices detailed above violate the Cartwright Act, Cal. Bus. &  
18         Prof. Code § 16700 et seq., which prohibits, *inter alia*, the combination of resources by two or more  
19         persons to restrain trade or commerce or to prevent market competition. *See id.* §§ 16720, 16726.

20          280. Under the Cartwright Act, a "combination" is formed when the anticompetitive  
21         conduct of a single firm coerces other market participants to involuntarily adhere to the  
22         anticompetitive scheme.

23          281. The Android Application Distribution Market is a valid antitrust market.

24          282. Google has executed agreements with OEMs that unreasonably restrict competition  
25         in the Android Application Distribution Market. Namely, Google entered into anti-forking  
26         agreements and MADAs with OEMs that require OEMs to offer the Google Play Store as the  
27         primary—and practically the only—app store on Android mobile devices. These agreements further  
28         prevent OEMs from offering alternative app stores on Android mobile devices in any prominent  
               visual positioning.

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1       283. Google's conduct and practices have substantial anticompetitive effects, including  
2 increased prices to consumers and costs to developers, reduced innovation, poorer customer service  
3 and lowered output.

4       284. It is appropriate to bring this action under the Cartwright Act because many of the  
5 illegal agreements were made in California and purport to be governed by California law, many  
6 affected consumers reside in California, Google has its principal place of business in California and  
7 overt acts in furtherance of Google's anticompetitive scheme took place in California.

8       285. Plaintiffs and the Class were harmed by Defendants' anticompetitive conduct in a  
9 manner that the Cartwright Act was intended to prevent. They paid more for Android apps and in-  
10 app purchases than they would have paid in a competitive market. Plaintiffs and the Class have also  
11 been injured because Google's unlawful restraints of trade extinguished Plaintiffs' and the Class's  
12 freedom to choose between the Google Play Store and lower-cost market alternatives that would  
13 have been available had Google not restrained trade. Plaintiffs and the Class were also injured  
14 because Google's establishment and maintenance of supra-competitive pricing has caused a  
15 reduction in the output and supply of Android apps and in-app purchases, which would have been  
16 more abundantly available in a competitive market.

17      286. Plaintiffs and the Class have suffered and continue to suffer damages and irreparable  
18 injury, and such damages and injury will not abate until an injunction ending Google's  
19 anticompetitive conduct issues.

20      **COUNT 8: California Cartwright Act Unreasonable Restraints of Trade in the Android**  
21      **Application Distribution Market: Developer Agreements**  
22      **(Against all Defendants except Google Payment)**

22      287. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set  
23 forth in the rest of this Complaint as if fully set forth herein.

24      288. Google's acts and practices detailed above violate the Cartwright Act, Cal. Bus. &  
25 Prof. Code § 16700 *et seq.*, which prohibits, *inter alia*, the combination of resources by two or more  
26 persons to restrain trade or commerce or to prevent market competition. *See id.* §§ 16720, 16726.  
27  
28

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1       289. Under the Cartwright Act, a “combination” is formed when the anti- competitive  
2 conduct of a single firm coerces other market participants to involuntarily adhere to the  
3 anticompetitive scheme.

4       290. The Android Application Distribution Market is a valid antitrust market.

5       291. Google conditions distribution through the Google Play Store on entering into the  
6 standardized DDA described above, including the Developer Program Policies integrated therein.  
7 Through certain provisions in these agreements, Google forces app developers to submit to  
8 conditions that unreasonably restrain competition in the Android Application Distribution Market

9       292. Section 4.5 of the DDA provides that developers “may not use Google Play to  
10 distribute or make available any Product that has a purpose that facilitates the distribution of  
11 software applications and games for use on Android devices outside of Google Play.” Section 4.1  
12 of the DDA requires that all developers “adhere” to Google’s Developer Program Policies. Under  
13 the guise of its so-called “Malicious Behavior” Policy, Google prohibits developers from  
14 distributing apps that “download executable code [*i.e.*, code that would execute an app] from a  
15 source other than Google Play.” The DDA further reserves to Google the right to remove and  
16 disable any Android app that it determines violates either the DDA or its Developer Program  
17 Policies and to terminate the DDA on these bases. (§§ 8.3, 10.3.) These provisions prevent app  
18 developers from offering competing app stores through the Google Play Store, even though there  
19 is no legitimate technological or other impediment to distributing a competing app store through  
20 the Google Play Store. In addition, the anti-forking agreements Google entered into with OEMs  
21 forbid OEMs from developing or distributing their own versions of Android to eliminate the  
22 technical hurdles Google has imposed on competing app stores.

23       293. These provisions have no legitimate or procompetitive purpose or effect, and  
24 unreasonably restrain competition in the Android Application Distribution Market.

25       294. Google’s conduct and practices have substantial anticompetitive effects, including  
26 increased prices to consumers and costs to developers, reduced innovation, poorer customer service,  
27 and lowered output.

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1       295. It is appropriate to bring this action under the Cartwright Act because many of the  
 2 illegal agreements were made in California and purport to be governed by California law, many  
 3 affected consumers reside in California, Google has its principal place of business in California,  
 4 and overt acts in furtherance of Google's anticompetitive scheme took place in California.

5       296. Plaintiffs and the Class have been harmed by Defendants' anticompetitive conduct  
 6 in a manner that the Cartwright Act was intended to prevent. They paid more for Android apps and  
 7 in-app purchases than they would have paid in a competitive market. Plaintiffs and the Class have  
 8 also been injured because Google's unlawful restraints of trade extinguished Plaintiffs' and the  
 9 Class's freedom to choose between the Google Play Store and lower-cost market alternatives that  
 10 would have been available had Google not restrained trade. Plaintiffs and the Class have also been  
 11 injured because Google's establishment and maintenance of supra-competitive pricing has caused  
 12 a reduction in the output and supply of Android apps and in-app purchases, which would have been  
 13 more abundantly available in a competitive market.

14       297. Plaintiffs and the Class have suffered and continue to suffer damages and irreparable  
 15 injury, and such damages and injury will not abate until an injunction ending Google's  
 16 anticompetitive conduct issues.

**COUNT 9: California Cartwright Act Unreasonable Restraints of Trade in the In-App  
 Aftermarket**  
**(Against all Defendants)**

19       298. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set  
 20 forth in the rest of this Complaint as if fully set forth herein.

21       299. Google's acts and practices detailed above violate the Cartwright Act, Cal. Bus. &  
 22 Prof. Code § 16700 *et seq.*, which prohibits, *inter alia*, the combination of resources by two or more  
 23 persons to restrain trade or commerce or to prevent market competition. *See id.* §§ 16720, 16726.

24       300. Under the Cartwright Act, a "combination" is formed when the anticompetitive  
 25 conduct of a single firm coerces other market participants to involuntarily adhere to the  
 26 anticompetitive scheme.

27       301. The In-App Aftermarket, which comprises of in-app distribution and payment  
 28 systems, is a valid antitrust market.

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1       302. Google has monopoly power in the In-App Aftermarket.

2       303. Google conditions distribution through the Google Play Store on entering into the  
3 standardized DDA described above, including the Developer Program Policies integrated therein.  
4 Through certain provisions in these agreements, Google forces app developers to submit to  
5 conditions that unreasonably restrain competition in the In-App Aftermarket.

6       304. Section 3.2 of the DDA requires that Android app developers enter into a separate  
7 agreement with Google's payment processor, Google Payment, to receive payment for apps and  
8 content distributed through the Google Play Store. This includes payments related to in-app  
9 purchases. Further, Google's Developer Program Policies, compliance with which Section 4.1 of  
10 the DDA makes obligatory, require that apps distributed through the Google Play Store "must use  
11 Google Play In-app Billing [offered by Google Payment] as the method of payment" for in-app  
12 purchases. While Google's Policies exclude certain types of transactions from this requirement,  
13 such as the purchase of "solely physical products" or of "digital content that may be consumed  
14 outside of the app itself."

15       305. These provisions have no legitimate or procompetitive purpose or effect, and  
16 unreasonably restrain competition in the In-App Aftermarket.

17       306. Google's conduct and practices have substantial anticompetitive effects, including  
18 increased prices to consumers and costs to developers, reduced innovation, poorer customer service  
19 and lowered output.

20       307. It is appropriate to bring this action under the Cartwright Act because many of the  
21 illegal agreements were made in California and purport to be governed by California law, many  
22 affected consumers reside in California, Google has its principal place of business in California and  
23 overt acts in furtherance of Google's anticompetitive scheme took place in California.

24       308. Plaintiffs and the Class have been harmed by Defendants' anticompetitive conduct  
25 in a manner that the Cartwright Act was intended to prevent. They paid more for Android apps and  
26 in-app purchases than they would have paid in a competitive market. Plaintiffs and the Class have  
27 also been injured because Google's unlawful restraints of trade extinguished Plaintiffs' and the  
28 Class's freedom to choose between the Google Play Store and lower-cost market alternatives that

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1 would have been available had Google not restrained trade. Plaintiffs and the Class have also been  
2 injured because Google's establishment and maintenance of supra-competitive pricing has caused  
3 a reduction in the output and supply of Android apps and in-app purchases, which would have been  
4 more abundantly available in a competitive market.

5 309. Plaintiffs and the Class have suffered and continue to suffer damages and irreparable  
6 injury, and such damages and injury will not abate until an injunction ending Google's  
7 anticompetitive conduct issues.

8 **COUNT 10: California Cartwright Act Tying In-App Distribution, Including Google Play**  
**Billing, to the Google Play Store**  
**(Against all Defendants)**

9 310. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set  
10 forth in the rest of this Complaint as if fully set forth herein.

11 311. Google's acts and practices detailed above violate the Cartwright Act, Cal. Bus. &  
12 Prof. Code § 16700 *et seq.*, which prohibits, *inter alia*, the combination of resources by two or more  
13 persons to restrain trade or commerce, or to prevent market competition. *See id.* §§ 16720, 16726.

14 312. Under the Cartwright Act, a "combination" is formed when the anticompetitive  
15 conduct of a single firm coerces other market participants to involuntarily adhere to the  
16 anticompetitive scheme.

17 313. The Cartwright Act also makes it "unlawful for any person to lease or make a sale  
18 or contract for the sale of goods, merchandise, machinery, supplies, commodities for use within the  
19 State, or to fix a price charged therefor, or discount from, or rebate upon, such price, on the  
20 condition, agreement or understanding that the lessee or purchaser thereof shall not use or deal in  
21 the goods, merchandise, machinery, supplies, commodities, or services of a competitor or  
22 competitors of the lessor or seller, where the effect of such lease, sale, or contract for sale or such  
23 condition, agreement or understanding may be to substantially lessen competition or tend to create  
24 a monopoly in any line of trade or commerce in any section of the State." *Id.* § 16727.

25 314. As detailed above, Google has unlawfully tied in-app distribution, including its  
26 payment system, Google Play Billing, to the Google Play Store through its DDAs with app  
27 developers and its Developer Program Policies.

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1       315. Google has sufficient economic power in the tying market, the Android App  
2 Distribution Market, to affect competition in the tied market, the Android In-App Aftermarket. With  
3 Google Play Store installed on nearly all Android OS devices and over 90% of downloads on  
4 Android OS devices being performed by the Google Play Store, Google has overwhelming market  
5 power. Google's market power is further evidenced by its ability to extract supra-competitive taxes  
6 on the sale of apps through the Google Play Store.

7       316. The availability of the Google Play Store for app distribution is conditioned on the  
8 app developer accepting a second product, the In-App Aftermarket, which includes Google Play  
9 Billing, Google's in-app payment system. Google's requirement that developers to distribute  
10 through (and pay the toll for) Google Play forever forecloses alternative app distribution and  
11 payment systems.

12      317. The tying product, the Google Play Store, is separate and distinct from the tied In-  
13 App Aftermarket, including Google Play Billing, because, but for Google's restrictions, app  
14 developers have alternative distribution and in-app payment system options and would prefer to  
15 choose among them independently of how an Android app is distributed. Google's unlawful tying  
16 arrangement thus ties two separate products that are in separate markets.

17      318. Google's conduct forecloses competition in the In-App Aftermarket, affecting a  
18 substantial volume of commerce in these Markets.

19      319. Google has thus engaged in a *per se* illegal tying arrangement, and the Court does  
20 not need to engage in a detailed assessment of the anticompetitive effects of Google's conduct or  
21 its purported justifications.

22      320. Even if Google's conduct does not form a *per se* illegal tie, an assessment of the  
23 tying arrangement would demonstrate that it is unreasonable under the Cartwright Act, and  
24 therefore, illegal.

25      321. Google's acts and practices detailed above unreasonably restrained competition in  
26 the In-App Aftermarket.

27      322. It is appropriate to bring this action under the Cartwright Act because many of the  
28 illegal agreements were made in California and purport to be governed by California law, many

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1 affected consumers reside in California, Google has its principal place of business in California,  
2 and overt acts in furtherance of Google's anticompetitive scheme took place in California.

3 323. Plaintiffs and the Class have been harmed by Defendants' anticompetitive conduct  
4 in a manner that the Cartwright Act was intended to prevent. They paid more for Android apps and  
5 in-app purchases than they would have paid in a competitive market. Plaintiffs and the Class have  
6 also been injured because Google's unlawful restraints of trade extinguished Plaintiffs' and the  
7 Class's freedom to choose between the Google Play Store and lower-cost market alternatives that  
8 would have been available had Google not restrained trade. Plaintiffs and the Class have also been  
9 injured because Google's establishment and maintenance of supra-competitive pricing has caused  
10 a reduction in the output and supply of Android apps and in-app purchases, which would have been  
11 more abundantly available in a competitive market.

12 324. Plaintiffs and the Class have suffered and continue to suffer damages and irreparable  
13 injury, and such damages and injury will not abate until an injunction ending Google's  
14 anticompetitive conduct issues.

**COUNT 11: California Unfair Competition Law, Cal. Bus. & Prof. Code Section 17200 et.  
seq. ("Section 17200" or the "UCL")**

**(Against all Defendants)**

17 325. Plaintiffs restate, reallege, and incorporate by reference each of the allegations set  
18 forth in the rest of this Complaint as if fully set forth herein.

19 326. The UCL defines unfair competition to include any "unlawful, unfair or fraudulent  
20 business act or practice and unfair, deceptive, untrue or misleading advertising and any act  
21 prohibited by Chapter 1 (commencing with § 17500) of Part 3 of Division 7 of the Business and  
22 Professions Code." See California Business and Professions Code § 17200.

23 327. Google violated the UCL by engaging in unlawful, unfair, and deceptive business  
24 acts and practices.

25 328. Google is a "person" as defined by Cal. Bus. & Prof. Code § 17201.

26 329. Pursuant to Cal. Bus. & Prof. Code § 17204, each of the Plaintiffs named herein,  
27 and the members of the proposed Class have suffered injury in fact and have lost money or property  
28 because of the unfair competition set forth herein. Specifically, Plaintiffs and Class Members

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1 overpaid for apps and in-app digital content due to Google's anticompetitive conduct, losing the  
2 benefit of their bargain in making the purchases due to the overpayment. Plaintiffs intend to make  
3 future purchases of apps and in-app digital content, and are therefore irreparably harmed by the  
4 ongoing violations of the law alleged herein.

5       330. In accordance with the liberal application and construction of the UCL, application  
6 of the UCL to all Class Members is appropriate, given that: Google's conduct (as described herein)  
7 originated from California; the aforementioned agreements, business plans, and Android OS code  
8 originated in California; and the Google Play Terms of Service, which were unilaterally drafted by  
9 Google and are uniform to Plaintiffs and all Class Members, provide that California law shall apply.

10      331. Google Play's uniform Terms of Service govern the reach of Plaintiffs' and the  
11 Class's claims because Google's violations of the UCL were caused, at least in part, by and through  
12 Plaintiffs' and the Class's use of the Google Play Store.

#### **Google's Conduct is Unlawful**

13      332. A business act or practice is "unlawful" pursuant to the UCL if it violates any other  
14 law or regulation.

15      333. California Cartwright Act, Cal. Bus. & Prof. Code § 16700 *et seq.*, prohibits  
16 unlawful monopolization, monopoly maintenance, and monopoly tying pursuant to Cal. Bus. &  
17 Prof. Code §§ 16720, 16726, 16727.

18      334. California has a clearly established public policy forbidding monopolistic acts. As  
19 alleged herein, Google willfully and wrongfully acquired, and unlawfully maintained, monopoly  
20 power in the relevant markets, defined above, to coerce the purchase of apps and in-app purchases  
21 at artificially inflated prices.

22      335. Thus, because of Google's acts and conduct, alleged herein, competition in the  
23 Android Application Distribution Market and In-App Aftermarket was diminished. Google's  
24 conduct and practices, as alleged herein, have had substantial anticompetitive effects, including  
25 increased prices to consumers and costs to developers, reduced innovation, and lowered output.

26      336. Google's conduct was a violation of Cal. Bus. & Prof. Code §§ 16720, 16726,  
27 16727, giving rise to liability for unlawful acts pursuant to the UCL.

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337. Section 1 of the Sherman Act, 15 U.S.C. §1, prohibits “[e]very contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade or commerce among the several States, or with foreign nations.” Section 2 of the Sherman Act, 15 U.S.C. §2, prohibits the “monopoliz[ation of] any part of the trade or commerce among the several States, or with foreign nations.” As alleged herein, Google’s conduct violated the aforementioned sections of the Sherman Act, thus giving rise to liability for unlawful conduct under the UCL.

## **Google's Conduct is Unfair**

338. A business practice is “unfair” pursuant to the UCL if it is immoral, unethical, oppressive, unscrupulous, or substantially injurious to consumers.

339. Google's "unfair" acts and practices include executing agreements with OEMs that unreasonably restrict competition in the Android Application Distribution Market, such as anti-forking agreements and MADAs that require OEMs to offer the Google Play Store as the primary—and practically the only—app store on Android mobile devices. These agreements further prevent OEMs from offering alternative app stores on Android mobile devices in any prominent visual positioning.

340. Google also engaged in “unfair” acts and practices when it conditioned distribution through the Google Play Store on entering standardized DDAs, including the Developer Program Policies integrated therein. Through certain provisions in these agreements, Google forces app developers to submit to conditions that unreasonably restrain trade in the Android Application Distribution Market. For example, Section 4.5 of the DDA provides that developers “may not use Google Play to distribute or make available any Product that has a purpose that facilitates the distribution of software applications and games for use on Android devices outside of Google Play.” Section 4.1 of the DDA requires that all developers “adhere” to Google’s Developer Program Policies. Under the guise of its so-called “Malicious Behavior” Policy, Google prohibits developers from distributing apps that “download executable code [*i.e.*, code that would execute an app] from a source other than Google Play.” The DDA further reserves to Google the right to remove and disable any Android app that it determines violates either the DDA or its Developer Program Policies and to terminate the DDA on these bases. (§§ 8.3, 10.3.) These provisions prevent app

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1 developers from offering competing app stores through the Google Play Store, even though there  
2 is no legitimate technological or other impediment to distributing a competing app store through  
3 the Google Play Store. In addition, the anti-forking agreements Google entered into with OEMs  
4 forbid OEMs from developing or distributing their own versions of Android to eliminate the  
5 technical hurdles Google has imposed on competing app stores.

6       341. Google further engaged in “unfair” acts and practices by conditioning distribution  
7 through the Google Play Store on entering into the standardized DDA, as described above, including  
8 the Developer Program Policies integrated therein. Through certain provisions in these agreements,  
9 Google forced app developers to submit to conditions that unreasonably restrain competition in the  
10 In-App Aftermarket. Section 3.2 of the DDA requires that Android app developers enter into a  
11 separate agreement with Google’s payment processor, Google Play Billing, to receive payment for  
12 apps and content distributed through the Google Play Store. This includes payments related to in-  
13 app purchases. Further, Google’s Developer Program Policies, compliance with which Section 4.1  
14 of the DDA makes obligatory, require that apps distributed through the Google Play Store “must  
15 use Google Play In-app Billing [offered by Google Payment] as the method of payment” for in-app  
16 purchases. While Google’s Policies exclude certain types of transactions from this requirement,  
17 such as the purchase of “solely physical products” or of “digital content that may be consumed  
18 outside of the app itself.”

19       342. Google further engaged in “unfair” acts and practices by unlawfully tying its app  
20 and in-app payment system, Google Play Billing, to the Google Play Store through its DDAs with  
21 app developers and its Developer Program Policies, as detailed above.

22       343. Google further engaged in “unfair” acts and practices by imposing unnecessary  
23 technological barriers to the direct distribution of applications and alternative application stores.

24       344. Google engaged in this conduct to gain an unfair commercial advantage over its  
25 competitors. It acted to withhold critical and material information about its conduct from Plaintiffs  
26 and Class Members, competitors, and the marketplace, all to its unfair competitive advantage.

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1       345. Google's conduct is unfair as it violates state and federal anti-trust laws and violates  
2 the policy and spirit of these antitrust laws. The effect of Google's wrongful conduct significantly  
3 threatens and harms competition.

4       346. Accordingly, as alleged herein, Google's acts and practices are unfair in violation of  
5 the UCL because they offend public policy; are immoral, unethical, oppressive, outrageous,  
6 unscrupulous, and substantially injurious; and caused substantial harm, including in the form of  
7 artificially inflated prices, that greatly outweigh any possible utility from the practices.

8       347. Google's business practices, as alleged herein, are unfair because: (1) the injury to  
9 consumers is substantial; (2) the injury is not outweighed by any countervailing benefits to  
10 consumers or competition; and (3) consumers could not avoid paying Google's monopolistic prices  
11 because there were no viable alternatives, and there were reasonably available alternatives to further  
12 Google's legitimate business interests, other than the conduct described herein.

13       348. The conduct alleged herein occurs and continues to occur in Google's business.  
14 Google's wrongful conduct is part of a pattern or generalized course of conduct repeated on scores  
15 of occasions daily.

16       349. Consumers, including Plaintiffs and Class Members, have been injured because they  
17 have been deprived of choice, and have paid inflated prices for apps, in-app digital content and  
18 subscriptions, which inflated prices they otherwise would not have had to pay in the absence of  
19 Google's anti-competitive conduct. Plaintiffs and the Class's injury is the kind of injury that the  
20 antitrust laws were designed to prevent and flows from Google's unlawful conduct.

### 21                   **Google's Conduct is Fraudulent**

22       350. A business act or practice is "fraudulent" under the UCL if it is likely to deceive  
23 members of the consuming public.

24       351. As alleged herein, Google repeatedly made false and misleading representations to  
25 Plaintiffs and Class Members that were likely to deceive, and did deceive, Plaintiffs and Class  
26 Members. For example, Google repeatedly misrepresented the "openness" of Android and the Play  
27 Store, which Plaintiffs and Class Members, as reasonable consumers, would reasonably have  
28 understood to mean that Google did not engage in the anticompetitive practices alleged herein.

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1 Plaintiffs and Class Members could not have reasonably discovered and made informed decisions  
2 based on Google's anticompetitive conduct—let alone consent to them simply by purchasing an  
3 Android device. Google's representations that “Android is about choice”, is “freedom of choice for  
4 consumers”, is a “competitive ecosystem” were false and misleading for similar reason.

5 352. Google's business practices, as alleged herein, constitute fraudulent conduct because  
6 it was likely to deceive, and did deceive, Plaintiffs and Class Members into purchasing apps, making  
7 in-app purchases, and subscribing to apps, among other things, at prices that were higher than  
8 Plaintiffs and the Class would have paid in an otherwise competitive market. Indeed, Google's  
9 conduct foreclosed Plaintiffs' and the Class's freedom to choose between the Google Play Store  
10 and lower-cost market alternatives that would have been available had Google not gained its unfair  
11 commercial advantage.

12 353. Google's representations and omissions—all of which emanated from California—  
13 were material because they were likely to, and did, deceive reasonable consumers, including  
14 Plaintiffs and Class Members.

15 354. As a direct and proximate result of Google's unfair, unlawful, and fraudulent acts  
16 and practices, Plaintiff and Class Members were injured and lost money, as set forth in § 17204 of  
17 the UCL, including because they paid more for Android apps and in-app purchases than they would  
18 have paid in a competitive market. Plaintiffs and the Class have also been injured because Google's  
19 unlawful restraints of trade extinguished Plaintiffs' and the Class's freedom to choose between the  
20 Google Play Store and lower-cost market alternatives that would have been available had Google  
21 not restrained trade. Plaintiffs and the Class were also injured because Google's establishment and  
22 maintenance of supra-competitive pricing has caused a reduction in the output and supply of  
23 Android apps and in-app purchases, which would have been more abundantly available in a  
24 competitive market. In turn, Google has been unjustly enriched at the expense of Plaintiffs and  
25 Class Members. Specifically, Defendants have been unjustly enriched by obtaining supra-  
26 competitive revenues and profits that they would not have otherwise obtained (or were permitted  
27 to avoid losses) absent their false, misleading, and deceptive conduct.

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355. There is no utility to be served by Google’s conduct that in any way outweighs the gravity of the harm caused to consumers, Plaintiffs, and Class Members. In addition, Google’s conduct was, and remains, substantially injurious to consumers and competitors; is not outweighed by any countervailing benefits to consumers or competitors; and Plaintiffs and Class Members could not reasonably avoid the injury caused by Google’s conduct and misrepresentations.

356. Google acted intentionally, willfully, knowingly, and maliciously to violate California's Unfair Competition Law, and recklessly disregarded Plaintiffs' and Class Members' rights.

357. Plaintiffs and Class Members seek all monetary and non-monetary relief allowed by law, including restitution of all overcharges stemming from Google’s unfair, unlawful, and fraudulent business practices; declaratory relief; reasonable attorneys’ fees and costs under California Code of Civil Procedure § 1021.5; injunctive relief; and other appropriate equitable relief. Pursuant to § 17203 of the UCL, Plaintiffs seek an order from the Court requiring Google to make restitution to Plaintiffs and the Class in the amounts by which Google has overcharged them, and to enjoin Google from continuing to violate the UCL and/or from violating the UCL in the future. Otherwise, Plaintiffs and Class Members, and the public at large, may be irreparably harmed and/or denied an effective and complete remedy, if such an order is not granted, including because they continue to use the Google Play Store to purchase the products identified herein.

358. This count is timely brought within the operable statute of limitations set forth in Cal. Bus. & Prof. Code § 17208 in that Google's misconduct is a continuing wrong and its violations alleged herein are ongoing, subjecting Plaintiffs and the Class to continuing harm.

## **PRAYER FOR RELIEF**

WHEREFORE, Plaintiffs respectfully request that the Court enter judgment in favor of Plaintiffs and against Defendants:

A. Certify the Action as a class action, appoint Plaintiffs as class representatives, and appoint Co-Lead Counsel as Class Counsel;

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- 1       B. Permanently enjoining Defendants from monopolizing the Android Application
- 2              Distribution Market and engaging in anticompetitive conduct in the In-App
- 3              Aftermarket;
- 4       C. Permanently enjoining Defendants from engaging in anticompetitive conduct in
- 5              connection with their agreements with OEMs, Mobile Network Carriers and app
- 6              developers;
- 7       D. Awarding Plaintiffs and the Class treble damages for injuries caused by
- 8              Defendants' violations of the federal antitrust laws and California's Cartwright Act,
- 9              and making restitution to Plaintiffs and the Class for their injuries pursuant to the
- 10             UCL;
- 11      E. Awarding Plaintiffs and the Class reasonable attorneys' fees and costs; and
- 12      F. Granting such other and further relief as the Court may deem just and proper.

**JURY TRIAL DEMAND**

Pursuant to Rule 38(b) of the Federal Rules of Civil Procedure, Plaintiffs demand a jury trial of all issues so triable.

Dated: July 21, 2021

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1                   **CERTIFICATE OF SERVICE**

2                   The undersigned certifies that a true and correct copy of the foregoing was served on July  
3 21, 2021 upon all counsel of record via the Court's electronic notification system.

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5                   */s/ Karma M. Julianelli*

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